

# Specifications Guide European Chemicals

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## Definitions of the trading locations for which Platts publishes indexes or assessments

The following specifications guide contains the primary specifications and methodologies for S&P Global Commodity Insights' Platts chemical assessments throughout Europe and Africa. All the assessments listed here employ Platts Assessments Methodology, as published at [https://www.spglobal.com/platts/plattscontent/\\_assets/\\_files/en/our-methodology/methodology-specifications/platts-assessments-methodology-guide.pdf](https://www.spglobal.com/platts/plattscontent/_assets/_files/en/our-methodology/methodology-specifications/platts-assessments-methodology-guide.pdf)

These guides are designed to give Platts subscribers as much information as possible about a wide range of methodology and specification questions.

This guide is current at the time of publication. Platts may issue further updates and enhancements to this guide and will announce these to subscribers through its usual publications of record. Such updates will be included in the next version of this guide. Platts editorial staff and managers are available to provide guidance when assessment issues require clarification.

### Olefins

Assessment	Currency	Code	Mavg	Wavg	Type	Basis	Location	Delivery Period	Min Size	Max Size	Uom	Page	Mavg	Wavg
<b>Ethylene</b>														
Ethylene CIF Med Weekly	USD	PHAJC00	PHBCZ03		Spot	CIF	Mediterranean	3-30 days forward	1000		MT	PC0236		
Ethylene CIF Med Weekly M1	USD	HPBJD04	HPBJD03		Spot	CIF	Mediterranean	Current month	1000		MT	PC300		
Ethylene CIF Med Weekly M2	USD	HPBJE04	HPBJE03		Spot	CIF	Mediterranean	Next month	1000		MT	PC300		
Ethylene CIF NWE	USD	PHAJD00	PHBCY03	PHAJD03	Spot	CIF	NWE	3-30 days forward	1000		MT	PC543		PC0236
Ethylene CIF NWE M1	USD	HPBJF00	HPBJF03	HPBJF04	Spot	CIF	NWE	Current month	1000		MT	PC543		
Ethylene CIF NWE M2	USD	HPBJG00	HPBJG03	HPBJG04	Spot	CIF	NWE	Next month	1000		MT	PC543		
Ethylene FD NWE	EUR	HPAJE00	HPBCX03	HPAJE03	Spot	FD	NWE	3-30 days forward	100		MT	PC0236		PC0236
Ethylene FD NWE M1	EUR	HPBJI00	HPBJI03	HPBJI04	Spot	FD	NWE	Current month	100		MT	PC543		
Ethylene FD NWE M2	EUR	HPBJJ00	HPBJJ03	HPBJJ04	Spot	FD	NWE	Next month	100		MT	PC543		
Ethylene FD NWE	USD	HPAJE10	HPAJE13	HPAJE14	Spot	FD	NWE	3-30 days forward	100		MT	PC0300		PC0300
Ethylene FD NWE CP*	EUR	AAUDC00			Contract	FD	NWE	Current month			MT	PC0236		
Ethylene FD NWE CP *	USD	AAUDC10			Contract	FD	NWE	Current month			MT	PC0300		
Ethylene CP* Indicator	EUR	HPBJH00	HPBJH03		Contract	FD	NWE	Next month				PC543		
<b>Propylene</b>														
Propylene CP* Indicator	EUR	HPBJO00	HPBJO03		Contract	FD	NWE	Next month				PC543		
Poly grade propylene FD NWE	EUR	HPAJQ00	HPBCA03	HPAJQ01	Spot	FD	NWE	3-30 days forward	100		MT	PC543		PC0237
Poly grade propylene FD NWE M1	EUR	HPBJM00	HPBJM03	HPBJM04	Spot	FD	NWE	Current month	100		MT	PC543		
Poly grade propylene FD NWE M2	EUR	HPBJN00	HPBJN03	HPBJN04	Spot	FD	NWE	Next month	100		MT	PC543		
Poly grade propylene FD NWE	USD	HPAJQ10	HPAJQ13	HPAJQ14	Spot	FD	NWE	3-30 days forward	100		MT	PC0300		PC0300
Poly grade propylene CIF NWE	EUR	HPAJP00	HPBCB03	HPAJP01	Spot	CIF	NWE	3-30 days forward	1000		MT	PC543		PC0237
Poly grade propylene CIF NWE M1	EUR	HPBJK00	HPBJK03	HPBJK04	Spot	CIF	NWE	Current month	1000		MT	PC543		

**Olefins**

Assessment	Currency	Code	Mavg	Wavg	Type	Basis	Location	Delivery Period	Min Size	Max Size	Uom	Page	Mavg	Wavg
Poly grade propylene CIF NWE M2	EUR	HPBJL00	HPBJL03	HPBJL04	Spot	CIF	NWE	Next month	1000		MT	PC543		
Poly grade propylene CIF NWE	USD	HPAJP10	HPAJP13	HPAJP14	Spot	CIF	NWE	3-30 days forward	1000		MT	PC0308		PC0308
Chem grade propylene FD NWE Weekly	EUR	HPAJZ00	HPBCM03		Spot	FD	NWE	3-30 days forward	100		MT	PC0237		
Chem grade propylene FD NWE Weekly M1	EUR	HPBJP04	HPBJP03		Spot	FD	NWE	Current month	100		MT	PC0308		
Chem grade propylene FD NWE Weekly M2	EUR	HPBJC04	HPBJC03		Spot	FD	NWE	Next month	100		MT	PC0308		
Chem grade propylene CIF NWE Weekly	EUR	HPAJY00	HPBCN03		Spot	CIF	NWE	3-30 days forward	1000		MT	PC0237		
Chem grade propylene CIF NWE Weekly M1	EUR	HPBJA04	HPBJA03		Spot	CIF	NWE	Current month	1000		MT	PC0308		
Chem grade propylene CIF NWE Weekly M2	EUR	HPBJB04	HPBJB03		Spot	CIF	NWE	Next month	1000		MT	PC0308		
Poly grade propylene FD NWE CP*	EUR	AAPST00			Contract	FD	NWE	Current month			MT	PC0237		
Poly grade propylene FD NWE CP*	USD	AAPST10			Contract	FD	NWE	Current month			MT	PC0308		

**Butadiene, C4s**

Butadiene FOB Rotterdam	USD	PHAKG00	PHBCR03	PHAKG04	Spot	FOB	NWE	3-30 days forward	1000		MT	PC519		PC0312
Butadiene FD NWE	EUR	HPAKF00	HPBCQ03	HPAKF04	Spot	FD	NWE	3-30 days forward	100		MT	PC519		PC0312
Butadiene FD NWE	USD	HPAKF10	HPAKF13	HPAKF14	Spot	FD	NWE	3-30 days forward	100		MT	PC519		PC0312
Butadiene FD NWE CP*	EUR	AAXOJ00			Contract	FD	NWE	Current month			MT	PC519		
Butadiene FD NWE CP*	USD	AAXOJ10			Contract	FD	NWE	Current month			MT	PC0312		
Crude C4 Weekly	USD	AAVOS00	AAVOS03		Spot	CIF	NWE	3-30 days forward	1000		MT	PC0461		
Crude C4 Factor Weekly		AAVOS02						3-30 days forward			MT	PC0461		

**Glycols**

MEG CIF ARA T2 Weekly	EUR	AAUWV00	AAUWV03		Spot	CIF	ARA, basis Antwerp	3-30 days forward	1000		MT	PC0236		
MEG CIF ARA T2 Weekly	USD	PHAJL00	PHBDE03		Spot	CIF	ARA, basis Antwerp	3-30 days forward	1000		MT	PC0236		
MEG FCA ARA	USD	AAUWW10	AAUWW13		Spot	FCA	ARA, basis Antwerp	3-30 days forward	25	100	MT	PC0304		
MEG FCA ARA	EUR	AAUWW00	AAUWW03		Spot	FCA	ARA, basis Antwerp	3-30 days forward	25	100	MT	PC0236		
MEG FD NWE T2 Weekly	EUR	HPAJK00	HPBDD03		Spot	FD	NWE	3-30 days forward	25	100	MT	PC0236		
MEG FD NWE T2 Weekly	USD	HPAJK10	HPAJK13		Spot	FD	NWE	3-30 days forward	25	100	MT	PC0304		
MEG FD NWE CP*	EUR	HPAJM00	HPBDF03		Contract	FD	NWE	Current month			MT	PC0236		
MEG FD NWE CP*	USD	HPAJM10	HPAJM13		Contract	FD	NWE	Current month			MT	PC0304		
DEG FCA ARA Weekly	EUR	AAXCX00	AAXCX03		Spot	FCA	ARA, basis Antwerp	3-30 days forward	25	100	MT	PC0236		
DEG FD NWE Weekly	EUR	AAXCY00	AAXCY03		Spot	FD	NWE	3-30 days forward	25	100	MT	PC0236		

**Cracker Margins**

Platts Petrochemical Cracker Margin (Spot Price)	USD	AAXOI00			Spot							PC543		
Platts Petrochemical Cracker Margin (Spot Price)	EUR	AAYDE00			Spot							PC543		
Platts Petrochemical Cracker Margin (CP*)	USD	AAYDF00			Contract							PC543		
Platts Petrochemical Cracker Margin (CP*)	EUR	AAYDG00			Contract							PC543		

\*CP = industry-settled contract price.

## Olefins

**Assessment Window:** Assessments are based on the latest information from the market up to the close of the assessment window at 4:30 pm London time each day for daily assessments and 4:30 pm London time Friday or last working day of the week in case of holidays for weekly assessments.

**Timing:** Platts assesses ethylene, propylene, butadiene, MEG, DEG and crude C4s for delivery within a rolling 3-30 day window from the date of publication. Platts also publishes assessments for delivery of ethylene and propylene within the current month (M1) and next month (M2). M1 and M2 assessments are based on material trading for delivery or loading any time during the specified month and roll on the first of the month.

For all daily assessments Platts also publishes weekly averages on the last working day of the week.

Assessments are for T2 product, i.e. duty paid for European-qualified material.

## Ethylene

**Basis and Locations:** Spot prices are assessed daily in Eur/mt FD NWE and in \$/mt CIF NWE. CIF Med prices are assessed weekly in \$/mt and reflect deliveries in the Western Mediterranean ports, including those on the West Coast of Italy and southern France.

Additionally, Platts publishes an industry-settled monthly contract price in Eur/mt FD NWE. The monthly contract price is updated at the start of the settlement month, once Platts has information that two independent buyers and two independent sellers have agreed the same price. In the event that there is more than one price settlement, Platts generally publishes an average of these price settlements, as per industry convention. If a full settlement is not reached, Platts will not publish a monthly contract price.

**Mode of Transport:** Pipeline for FD assessments. Vessel for CIF assessments.

**Standard Cargo Size:** Minimum 1,000mt for CIF, minimum 100mt for FD.

**Product Specifications:** Minimum purity of 99.9%.

## Propylene

**Basis and Locations:** Polymer grade spot prices are assessed daily in Eur/mt FD NWE and CIF NWE. Chemical grade prices are assessed weekly in Eur/mt FD NWE and CIF NWE.

Additionally, Platts publishes an industry-settled monthly contract price in Eur/mt FD NWE. The monthly contract price is updated at the start of the settlement month, once Platts has information that two independent buyers and two independent sellers have agreed the same price. In the event that there is more than one price settlement, Platts generally publishes an average of these price settlements, as per industry convention. If a full settlement is not reached, Platts will not publish a monthly contract price.

**Mode of Transport:** Pipeline, railcar, truck or barge for FD assessments. Vessel for CIF assessments.

**Standard Cargo Size:** Minimum 1,000mt for CIF, minimum 100mt for FD.

**Product Specifications:** Polymer grade - minimum purity of 99.5%. Chemical grade - minimum purity of 94%.

## Ethylene/Propylene Indicators

Platts Ethylene and Propylene Indicators are published daily and reflect a calculated gross contract price for the month ahead in Eur/mt on a FD NWE basis. Platts uses a rolling regression model to calculate an indicative contract price

throughout the month pending confirmed settlements. If the industry contract price settles before the end of the month, the month-ahead calculation is replaced with the industry-settled contract price. The month rolls on the first of each month.

The independent variables used in the rolling regression model are the differences between the latest 10-day average on the day of calculation and the 10-day average at the time of the most recent industry contract price settlement for four published daily prices. The independent variables are:

- Platts month-ahead ethylene FD NWE spot price;
- Platts month-ahead propylene FD NWE spot price;
- Platts naphtha CIF NWE financial M1 swap price [PAAAJ00];
- Platts benzene CIF ARA M2 spot price.

## Platts Petrochemical Cracker Margin

Platts Petrochemicals Cracker Margin (PCM) spot and contract calculations are published daily in \$/mt and in Eur/mt. The PCM aims to provide a basic calculation of the petrochemicals margins of steam cracker operators in Europe.

**The variables used in the calculation of the spot PCM include:**

- Naphtha CIF NWE [PAAAL00];
- Ethylene FD NWE (3-30 days forward, converted to \$/mt);
- Propylene FD NWE (3-30 days forward, converted to \$/mt);
- Butadiene FD NWE (3-30 days forward, converted to \$/mt);
- Benzene CIF ARA (5-30 days forward);
- Gasoline 10 ppm FOB AR [PGABM00];

- Low-sulfur fuel oil 1% CIF NWE [PUAAL00].
- Euro-dollar exchange rate [BCADD00]

The PCM spot formula is as follows:

- $PCM = 0.96 * \text{Ethylene FD NWE} + 0.54 * \text{Propylene FD NWE} + 0.19 * \text{Benzene CIF ARA} + 0.17 * \text{Butadiene FD NWE} + 0.55 * \text{Gasoline 10 ppm FOB Rdam barge} + (-0.0935 * \text{LSFO 1\% CIF NWE}) + (-3.13 * \text{Naphtha CIF NWE cargo})$ .

The variables used in the calculation of the contract PCM include ethylene, propylene, benzene and butadiene industry-settled monthly contract prices and cumulative monthly averages of the respective feedstocks.

## Butadiene

**Basis and Locations:** Spot prices are assessed daily in Eur/mt FD NWE and in \$/mt FOB Rotterdam.

Additionally, Platts publishes an industry-settled monthly contract price in Eur/mt FD NWE. The monthly contract price is updated at the start of the settlement month, once Platts has information that two independent buyers and two independent sellers have agreed the same price. In the event that there is more than one price settlement, Platts generally publishes an

average of these price settlements, as per industry convention. If a full settlement is not reached, Platts will not publish a monthly contract price.

**Mode of Transport:** Railcar or barge for FD assessments. Vessel for FOB assessments.

**Standard Cargo Size:** Minimum 1,000mt for FOB, minimum 100mt for FD.

**Product Specifications:** Minimum purity of 99.5%.

## Crude C4

**Basis and Locations:** Spot prices are assessed weekly in \$/mt CIF NWE.

**Standard Cargo Size:** At least 1,000mt.

**Product Specifications:** Typical contents of 43% butadiene and 25% isobutylene.

**Crude C4 factor:** The factor to naphtha expresses the ratio between the weekly crude C4 assessments basis CIF NWE and the physical naphtha assessment basis CIF NWE [PAAAL00] on the same day.

## Monoethylene Glycol (MEG)

**Basis and Locations:** Spot prices are assessed weekly in Eur/mt FCA ARA, basis Antwerp, FD NWE and CIF ARA, basis Antwerp.

Additionally, Platts publishes an industry-settled monthly contract price in Eur/mt FD NWE. The monthly contract price is updated when available, once Platts has information that two independent buyers and two independent sellers have agreed the same price. In the event that there is more than one price settlement, Platts generally publishes an average of these price settlements, as per industry convention. If a full settlement is not reached, Platts will not publish a monthly contract price.

**Standard Cargo Size:** Minimum 1,000mt for CIF, between 25-100mt for FCA and FD.

**Product Specifications:** Minimum purity of 99.9%.

## Diethylene Glycol (DEG)

**Basis and Locations:** Spot prices are assessed weekly in Eur/mt FCA ARA, basis Antwerp, and FD NWE.

**Standard Cargo Size:** 25-100 mt.

**Product Specifications:** Minimum purity of 99.5%.

## Aromatics and Methanol

Assessment	Currency	Code	Mavg	Wavg	Type	Basis	Location	Delivery Period	Min Size	Max Size	Uom	Page	Mavg	Wavg
<b>Benzene</b>														
Benzene CIF ARA	USD	AAOAX00	AAOAX03	AAOAX05	Spot	CIF	ARA	5-30 days forward	1000	1000	MT	PC0317	PC0432	PC0320
Benzene CIF ARA Mo01	USD	AAOQQ00	AAOQQ03	AAOQQ05	Spot	CIF	ARA	within the current month or the next calendar month if assessment date falls in the last five working days of the month	1000	1000	MT	PC0317	PC0432	PC0320
Benzene CIF ARA Mo02	USD	AAOQR00	AAOQR03	AAOQR05	Forward	CIF	ARA	within the 2nd month or within the 3rd month if assessment date falls in the last five working days of the month	1000	1000	MT	PC0317	PC0432	PC0320
Benzene CIF ARA Mo03	USD	AAIBH00	AAIBG00	-	Forward	CIF	ARA	within the 3rd month or within the 4th month if assessment date falls in the last five working days of the month	1000	1000	MT	PC0060		
Benzene CIF ARA Mo04	USD	AAIBJ00	AAIBI00	-	Forward	CIF	ARA	within the 4th month or within the 5th month if assessment date falls in the last five working days of the month	1000	1000	MT	PC0060		
Benzene CIF ARA Mo05	USD	AAIBL00	AAIBK00	-	Forward	CIF	ARA	within the 5th month or within the 6th month if assessment date falls in the last five working days of the month	1000	1000	MT	PC0060		
Benzene CIF ARA CP*	USD	AAPE00	-	-	Contract	CIF	ARA	Current month			MT	PC0317		
Benzene CIF ARA CP*	EUR	AAKJB00	-	-	Contract	CIF	ARA	Current month			MT	PC0317		
Benzene CIF ARA CP* indicator	USD	HPBJQ00			Contract	CIF	ARA	Next month			MT	PC0318		
<b>Toluene</b>														
Toluene CIF ARA	USD	TLEAA00	TLEAA03	TLEAA04	Spot	CIF	ARA	5-30 days forward	2000	5000	MT	PC0377	PC0432	PC0324
Toluene CIF ARA Mo01	USD	TLEAB00	TLEAB03	TLEAB04	Spot	CIF	ARA	within the current month or the next calendar month if assessment date falls in the last five working days of the month	2000	5000	MT	PC0377	PC0432	PC0324
Toluene CIF ARA Mo02	USD	TLEAC00	TLEAC03	TLEAC04	Forward	CIF	ARA	within the 2nd month or within the 3rd month if assessment date falls in the last five working days of the month	2000	5000	MT	PC0377	PC0432	PC0324
Toluene TDI FOB ARA	USD	AASF00	AASF03	AASF04	Spot	FOB	ARA	5-30 days forward	2000	5000	MT	PC0377	PC0432	PC0324
Toluene TDI FOB ARA Mo01	USD	AASFF00	AASFF03	AASFF04	Spot	FOB	ARA	within the current month or the next calendar month if assessment date falls in the last five working days of the month	2000	5000	MT	PC0377	PC0432	PC0324
Toluene TDI FOB ARA Mo02	USD	AASFJ00	AASFJ03	AASFJ04	Forward	FOB	ARA	within the 2nd month or within the 3rd month if assessment date falls in the last five working days of the month	2000	5000	MT	PC0377	PC0432	PC0324
Toluene CIF ARA Mo01 spread to EBOB FOB AR swap	USD	TLPRA00	TLPRA03	TLPRA04	Spot	CIF	ARA	within the current month or the next calendar month if assessment date falls in the last five working days of the month	2000	5000	MT	PC0377	PC0432	PC0324
Toluene CIF ARA Mo02 spread to EBOB FOB AR swap	USD	TLPRB00	TLPRB03	TLPRB04	Forward	CIF	ARA	within the 2nd month or within the 3rd month if assessment date falls in the last five working days of the month	2000	5000	MT	PC0377	PC0432	PC0324
<b>Paraxylene</b>														
Paraxylene FOB ARA	USD	AAILD00	AAIOR00	AAIVB00	Spot	FOB	ARA	5-30 days forward	1000	1000	MT	PC0375	PC0432	PC0444
Paraxylene FOB ARA Mo01	USD	AASDB00	AASDB03	AASDB01	Spot	FOB	ARA	within the current month or the next calendar month if assessment date falls in the last five working days of the month	1000	1000	MT	PC0375	PC0432	PC0444
Paraxylene FOB ARA Mo02	USD	AASDC00	AASDC03	AASDC01	Forward	FOB	ARA	within the 2nd month or within the 3rd month if assessment date falls in the last five working days of the month	1000	1000	MT	PC0375	PC0432	PC0444
Paraxylene FD NWE CP*	EUR	AALHZ00			Contract	FD	NWE	Current month			MT	PC0375		
Paraxylene FD NWE CP*	USD	AALHZ10			Contract	FD	NWE	Current month			MT	PC0375		

## Aromatics and Methanol

Assessment	Currency	Code	Mavg	Wavg	Type	Basis	Location	Delivery Period	Min Size	Max Size	Uom	Page	Mavg	Wavg
<b>Orthoxylene</b>														
Orthoxylene FOB ARA	USD	PHABK00	PHBFR03	PHABK04	Spot	FOB	ARA	5-30 days forward	1000	1000	MT	PC0332	PC0432	PC0444
Orthoxylene NWE CP*	EUR	HPABJ00	HPBFS03		Contract	FD	NWE	Current month			MT	PC0332		
Orthoxylene NWE CP*	USD	HPABJ10	HPABJ13		Contract	FD	NWE	Current month			MT	PC0332		
<b>Mixed Xylenes</b>														
Mixed Xylene CIF ARA	USD	MXEAA00	MXEAA03	MXEAA04	Spot	CIF	ARA	5-30 days forward	2000	5000	MT	PC0328	PC0432	PC0444
Mixed Xylene CIF ARA Mo01	USD	MXEAB00	MXEAB03	MXEAB04	Spot	CIF	ARA	within the current month or the next calendar month if assessment date falls in the last five working days of the month	2000	5000	MT	PC0328	PC0432	PC0444
Mixed Xylene CIF ARA Mo02	USD	MXEAC00	MXEAC03	MXEAC04	Forward	CIF	ARA	within the 2nd month or within the 3rd month if assessment date falls in the last five working days of the month	2000	5000	MT	PC0328	PC0432	PC0444
Mixed Xylene FOB ARA	USD	PHABD00	PHBFQ03	PHABD04	Spot	FOB	ARA	5-30 days forward	2000	5000	MT	PC0328	PC0432	PC0444
Mixed Xylene CIF ARA Mo01 spread to EBOB FOB AR swap	USD	MXPRA00	MXPRA03	MXPRA04	Spot	CIF	ARA	within the current month or the next calendar month if assessment date falls in the last five working days of the month	2000	5000	MT	PC0328	PC0432	PC0444
Mixed Xylene CIF ARA Mo02 spread to EBOB FOB AR swap	USD	MXPRB00	MXPRB03	MXPRB04	Forward	CIF	ARA	within the 2nd month or within the 3rd month if assessment date falls in the last five working days of the month	2000	5000	MT	PC0328	PC0432	PC0444
<b>Styrene</b>														
Styrene FOB ARA	USD	AAOQP00	AAOQP03	AAOQP05	Spot	FOB	ARA	5-30 days forward	1000	1000	MT	PC0376	PC0444	PC0338
Styrene FOB ARA Mo01	USD	AAVOQ00	AAVOQ03	AAVOQ04	Spot	FOB	ARA	within the current month or the next calendar month if assessment date falls in the last five working days of the month	1000	1000	MT	PC0376	PC0444	PC0338
Styrene FOB ARA Mo02	USD	AAVOR00	AAVOR03	AAVOR04	Forward	FOB	ARA	within the 2nd month or within the 3rd month if assessment date falls in the last five working days of the month	1000	1000	MT	PC0376	PC0444	PC0338
<b>Methanol</b>														
Methanol T2 FOB Rotterdam	EUR	HPACQ00	HPBGB03	HPACQ01	Spot	FOB	Rotterdam	5-30 days forward	1000	1000	MT	PC1160	PC0444	PC0346
Methanol T2 FOB Rotterdam Mo01	EUR	MEFRA01	MEFRA13	MEFRA14	Spot	FOB	Rotterdam	within the current month or the next calendar month if assessment date falls in the last five working days of the month	1000	1000	MT	PC1160	PC0444	PC0346
Methanol T2 FOB Rotterdam Mo02	EUR	MEFRA02	MEFRA23	MEFRA24	Forward	FOB	Rotterdam	within the current month or the next calendar month if assessment date falls in the last five working days of the month	1000	1000	MT	PC1160	PC0444	PC0346
Methanol T2 FOB Rotterdam	USD	HPACQ10	HPACQ13	HPACQ14	Spot	FOB	Rotterdam	5-30 days forward	1000	1000	MT	PC1160		PC0346
Methanol T2 FOB Rotterdam Mo01	USD	MEFRB01	MEFRB13	MEFRB14	Spot	FOB	Rotterdam	within the current month or the next calendar month if assessment date falls in the last five working days of the month	1000	1000	MT	PC1160	PC0444	PC0346
Methanol T2 FOB Rotterdam Mo02	USD	MEFRB02	MEFRB23	MEFRB24	Forward	FOB	Rotterdam	within the current month or the next calendar month if assessment date falls in the last five working days of the month	1000	1000	MT	PC1160	PC0444	PC0346
Methanol Quarterly CP*	EUR	HPACO00	HPBGC03		Contract	FOB	Rotterdam	Current quarter			MT	PC1160		
Methanol Quarterly CP*	USD	HPACO10	HPACO13		Contract	FOB	Rotterdam	Current quarter			MT	PC1160		

\*CP = industry-settled contract price.

## Aromatics and methanol

**Assessment Window:** Assessments for Northwest Europe benzene, toluene, styrene, paraxylene, mixed xylenes, orthoxylyene, and methanol are based on the latest information from the market up to the close of the daily assessment window at 4:30 pm London time.

**Timing:** Assessments reflect material for loading or delivery in a rolling 5-30 day window from the date of publication and are assessed daily. A weekly average of the daily assessments for these products is also published on Fridays or the last working day of the week.

Platts publishes Europe benzene, toluene, mixed xylenes, paraxylene, methanol and styrene assessments for loading or delivery within the current month (M1) and second month (M2). M1 and M2 assessments are based on material trading for loading or delivery any time during the specified month.

Platts also publishes assessments for benzene which reflect monthly forward physical delivery within the third (M3), fourth (M4) and fifth (M5) months.

All assessments roll forward five London working days prior to the first working day of the next month. For example, in March 2023 the M1 price reflects material delivered any time in March. On March 27, the assessment laycan rolls and April becomes the prompt month (M1).

Assessments reflect T2 (duty paid for European-qualified) material.

### **Aromatics MOC assessment process guidelines:**

Platts publishes bids, offers and intentions to trade for European benzene and paraxylene which reflect half-month, balance-of-the-month and full calendar month delivery or loading dates only, in line with standard market practice.

Orders with loading/delivery dates stretching over more than one month are not considered for benzene, mixed xylenes, paraxylene and toluene due to their restrictive nature.

Participants should allow at least five clear calendar days nomination period.

### Toluene and mixed xylenes MOC

**Quantity:** Platts reflects bids, offers and intentions to trade for parcels in a 2,000-5,000 mt range delivered CIF ARA. The specific quantity should be stated in the bid/offer.

**Delivery periods:** Platts publishes bids, offers and intentions to trade for balance of month and full calendar month delivery periods. Participants should allow at least five clear calendar days nomination period.

**Delivery nomination:** Platts publishes bids, offers and intentions to trade whereby sellers will narrow the delivery window post-trade, subject to mutual agreement with the buyer. At least five calendar days prior to the narrowed delivery window, sellers will nominate performing vessel and narrow the window to ten days for coasters or larger vessels, and to five days for barges. For balance month trades with reduced laycans, nominations will be made promptly following the trade.

**Vessel terms:** Platts publishes bids, offers and intentions to trade in which laytime and demurrage are capped at the level of a 10,000 dwt vessel. Counterparties agree to demurrage either as per charterparty agreement or at the market rate of a 10,000 dwt vessel, whichever is lowest.

### **Benzene**

**Basis and Location:** Spot prices are assessed daily in \$/mt CIF ARA.

The physical forward curve assessments, reflecting M1, M2, M3, M4 and M5, are in \$/mt CIF ARA.

Additionally, Platts publishes an industry-settled monthly contract price in Eur/mt and \$/mt CIF ARA. The \$/mt price is based on the European Central Bank euro daily reference rate of the day prior to the date of settlement to convert to dollars, as agreed between contract counterparties.

The monthly contract price is updated at the start of the settlement month, once Platts has obtained information that two independent buyers and two independent sellers have agreed the same price. In the event that there is more than one price settlement, Platts generally publishes an average of these price settlements, as per industry convention. If a full settlement is not reached, Platts will not publish a monthly contract price.

Platts Benzene CIF ARA CP Indicator is published daily in \$/mt and reflects calculated net contract prices for the month ahead. Platts uses a simple rolling five-day average of the assessment for benzene delivered in the month ahead to calculate an indicative front month contract price. Specifically, Platts uses the M2 CIF ARA benzene price [AAOQR00] in its calculations with the exception of the last five London working days of the month when the contract price indicator is calculated on the basis of M1 CIF ARA benzene [AAOQQ00]. This reflects the time at which the M1 assessment rolls from the existing month to the following month.

**Standard Cargo Size:** 1,000mt.

**Product Specifications:** Product must conform to ASTM D-2359 latest edition.

### **Toluene**

**Basis and Location:** Spot prices are assessed daily in \$/mt CIF ARA and FOB ARA for TDI grade. FOB prices are assessed at parity with CIF values.

Platts also publishes daily M1 and M2 CIF ARA spreads to



corresponding Eurobob FOB AR gasoline swaps. The Eurobob FOB AR gasoline balance-of-month swap [ABWFB00], is used for the M1 CIF ARA toluene assessment calculation, up to and including the 20th of each month. From the 21st of each month, when ABWFB00 is no longer published, until five London working days prior to month-end, Eurobob balance-of-month value for the purposes of Platts M1 toluene assessments is based on the front-month Eurobob FOB AR barge gasoline swap [ABWFC00] and a time spread. The Eurobob FOB AR gasoline front-month swap [ABWFC00] is used for the M2 CIF ARA toluene assessments through to month roll (see table).

Toluene laycan	Assessment dates	Corresponding Eurobob FOB AR swap
	1st-20th of month	Balance of month (ABWFB00)
M1 (TLEAB00)	21st of month to month roll	Indicative balance of month
	5 working days prior to month end	Front month (ABWFC00)
M2 (TLEAC00)	1st of the month to month roll	Front month (ABWFC00)
	5 working days prior to month end	Second month (ABWFD00)

**Standard Cargo Size:** 2,000-5,000mt.

**Product Specifications:** Product must conform to ASTM D-5606 latest edition, with a minimum purity of 99.9%.

(See appendix for full TDI-grade toluene specifications)

## Paraxylene

**Basis and Location:** Spot prices are assessed daily in \$/mt FOB ARA.

Additionally, Platts publishes an industry-settled monthly contract price in Eur/mt FD NWE. The monthly contract price is updated when available, once Platts has sufficient information about industry-settled contract prices. In the case of a full settlement, which is defined as a settlement at the same

level between at least two independent buyers and at least two independent sellers, a single value will be published. If there is no full settlement, Platts will publish the range of all settlements representing the lowest settlement and the highest settlement heard from market participants, with an average of these price settlements, as per industry convention. In the event that only one settlement is reported in the market, and corroborated by a sufficient number of market participants, this settlement may be taken as the low, high and average.

**Standard Cargo Size:** 1,000mt.

**Product Specifications:** Minimum purity of 99.7%.

## Orthoxylene

**Basis and Location:** Spot prices are assessed daily in \$/mt FOB ARA.

Additionally, Platts publishes an industry-settled monthly contract price in Eur/mt FD NWE. The monthly contract price is updated when available, once Platts has sufficient information about industry-settled contract prices. In the case of a full settlement, which is defined as a settlement at the same level between at least two independent buyers and at least two independent sellers, a single value will be published. If there is no full settlement, Platts will publish the range of all settlements representing the lowest settlement and the highest settlement heard from market participants, with an average of these price settlements, as per industry convention. In the event that only one settlement is reported in the market, and corroborated by a sufficient number of market participants, this settlement may be taken as the low, high and average.

**Standard Cargo Size:** 1,000mt.

**Product Specifications:** Minimum purity of 98% and a maximum 0.3% non-aromatics content.

## Mixed Xylenes

**Basis and Location:** Spot prices are assessed daily in \$/mt CIF ARA and FOB ARA. FOB prices are assessed at parity with CIF values.

Platts also publishes daily M1 and M2 CIF ARA spreads to corresponding Eurobob FOB AR gasoline swaps. The Eurobob FOB AR gasoline balance-of-month swap, ABWFB00, is used for the M1 CIF ARA MX assessment calculation, up to and including the 20th of each month. From the 21st of each month, when ABWFB00 is no longer published, until five London working days prior to month-end, Eurobob balance-of-month value for the purposes of Platts M1 MX assessments is based on the front-month Eurobob FOB AR barge gasoline swap [ABWFC00] and a time spread. The Eurobob FOB AR gasoline front-month swap, ABWFC00, is used for the M2 CIF ARA MX assessments through to month roll (see table).

MX laycan	Assessment dates	Corresponding Eurobob FOB AR swap
M1 (MXEAB00)	1st-20th of month	Balance of month (ABWFB00)
	21st of month to month roll	Indicative balance of month
	5 working days prior to month end	Front month (ABWFC00)
M2 (MXEAC00)	1st of the month to month roll	Front month (ABWFC00)
	5 working days prior to month end	Second month (ABWFD00)

**Standard Cargo Size:** 2,000-5,000mt.

**Product Specifications:** Product conforming to the latest edition of ASTM D-843, with one or more isomers removed; the non-aromatics content set at maximum 3% and the maximum ethylbenzene content at 20%. There are no limits on metaxylene, paraxylene and orthoxylene content.

(See appendix for full MX specifications)

## Styrene

**Basis and Location:** Spot prices are assessed daily in \$/mt FOB ARA.

**Standard Cargo Size:** 1,000mt.

**Product Specification:** Product must conform to ASTM D-2827 latest edition, with a minimum purity of 99.7%.

## Methanol

**Basis and Location:** Spot prices are assessed daily in Eur/mt FOB Rotterdam.

The physical forward curve assessments, reflecting M1 and M2, are in Eur/mt FOB Rotterdam.

Additionally, Platts publishes an industry-settled quarterly contract price in Eur/mt FOB Rotterdam. The quarterly contract price is updated at the start of the settlement quarter, once Platts has information that two independent buyers and two independent sellers have agreed the same price. In the event that there is more than one price settlement, Platts generally publishes an average of these price settlements, as per industry convention. If a full settlement is not reached, Platts will not publish a quarterly contract price.

**Standard Cargo Size:** 1,000mt.

**Product Specification:** Product must conform to the International Methanol Producers and Consumers Association (IMPCA) Reference Specification with a minimum purity of 99.85%, maximum water content of 0.1% by weight and maximum ethanol content of 50 mg/kg.

## Methanol Bunker Fuel

Assessment	Currency	Code	Mavg	Wavg	Type	Basis	Location	Delivery Period	Min Size	Max Size	Uom	Page	Mavg	Wavg
Methanol Bunker Fuel Rotterdam	USD	<a href="#">MLBRT00</a>	<a href="#">MLBRT03</a>	<a href="#">MLBRT04</a>	Spot	Delivered	Rotterdam	5-30 days forward, mirroring the methanol FOB Rotterdam assessment laycan	300	1000	MT	<a href="#">PC1159</a>	<a href="#">PCA0198</a>	<a href="#">PCA0199</a>
Methanol Bunker Rotterdam (Oii) \$/mt	USD	<a href="#">MLBR000</a>	<a href="#">MLBR003</a>	<a href="#">MLBR004</a>	Spot	Delivered	Rotterdam	5-30 days forward, mirroring the methanol FOB Rotterdam assessment laycan	300	1000	MT	<a href="#">PC1159</a>	<a href="#">PCA0198</a>	<a href="#">PCA0199</a>
Methanol Bunker Rotterdam (LNG) \$/mt	USD	<a href="#">MLBRL00</a>	<a href="#">MLBRL03</a>	<a href="#">MLBRL04</a>	Spot	Delivered	Rotterdam	5-30 days forward, mirroring the methanol FOB Rotterdam assessment laycan	300	1000	MT	<a href="#">PC1159</a>	<a href="#">PCA0198</a>	<a href="#">PCA0199</a>

### Methanol bunker fuel

Platts assesses the prevailing tradeable value of methanol delivered to ships for marine fuel.

The assessment reflects the value of spot methanol delivered from terminal to a receiving vessel via barge and is calculated by applying a logistics cost differential to the methanol FOB Rotterdam spot price assessment converted to \$/mt (HPACQ10).

**Assessment Window:** Assessments are based on the latest information from the market up to the close of the daily assessment process at 4:30 pm London time.

**Timing:** Assessment timing mirrors the underlying methanol FOB Rotterdam assessment, which reflects a 5-30 day forward laycan.

**Basis and Location:** Spot prices are assessed daily in \$/mt delivered Rotterdam.

**Standard Cargo Size:** Typical sizes vary but are generally between 300 to 1,000 mt.

**Product Specification:** Product must conform to the International Methanol Producers and Consumers Association (IMPCA) reference specification with a minimum purity of 99.85%, maximum water content of 0.1% by weight and maximum ethanol content of 50 mg/kg.

### Methanol bunker fuel energy content equivalents

Platts converts its methanol bunker fuel delivered Rotterdam assessment to the equivalent energy content of LNG and fuel oil, enabling comparison with other marine fuels.

Platts also publishes daily calculations for methanol bunker fuel, LNG, marine fuel oil and marine gasoil assessments, expressing price by calorific value. The comparisons and conversion factors can be found in Platts Global Bunker Fuels specifications guide here: [https://www.spglobal.com/platts/plattscontent/\\_assets/\\_files/en/ourmethodology/methodology-specifications/global-bunker-fuels.pdf](https://www.spglobal.com/platts/plattscontent/_assets/_files/en/ourmethodology/methodology-specifications/global-bunker-fuels.pdf)

## Gasoline Components

Assessment	Currency	Code	Mavg	Wavg	Type	Basis	Location	Delivery Period	Min Size	Max Size	Uom	Conv*	Page	Mavg	Wavg
<b>MTBE</b>															
MTBE FOB ARA	USD	PHALA00	PHBFZ03	PHALA04	Spot	FOB	ARA	3-15 days or 5-15 days forward	1000	1000	MT	8.45	PC0318	PC0432	PC0432
MTBE FOB ARA (cents/gal)	USD cents	AAWLE00			Spot	FOB	ARA	3-15 days or 5-15 days forward	3550	3550	Gal		PC0318		
MTBE FOB ARA factor		PHALA02	PHALA03	PHALA14	Spot	FOB	ARA						PC0318	PC0444	PC0432
MTBE FOB ARA spread to EBOB FOB AR M1 swap	USD	MTPRA00	MTPRA03	MTPRA04	Spot	FOB	ARA				MT		PC0318	PC0444	PC0432
<b>ETBE</b>															
ETBE FOB AR	USD	AASLQ00	AASLQ03	AASLQ01	Spot	FOB	AR	3-15 days or 5-15 days forward	1000	1000	MT	8.42	PB1420	PB1422	PB1011
ETBE Spread FOB AR	USD	AASLQ02	AASLQ13	AASLQ04	Spot	FOB	AR	3-15 days or 5-15 days forward	1000	1000	MT		PB1420		PB1011
<b>Raffinate -1</b>															
Raffinate -1 CIF NWE Weekly	USD	PHAFY00	PHBCU03		Spot	CIF	NWE	3-30 days forward	1000	1000	MT		PC0316		
Raffinate -1 CIF NWE Factor Weekly		PHAFY02			Spot	CIF	NWE	3-30 days forward	1000	1000	MT		PC0316		

\*Conversion rate from \$/mt to \$/b.

### Gasoline components

#### MTBE

**Assessment Window:** Assessments are based on the latest information from the market up to the close of the daily assessment window at 4:30 pm London time. The MTBE Market-on-Close assessment process is facilitated through the eWindow communication tool. For further details please consult the Chemicals timing and increment guidelines at <https://www.spglobal.com/platts/en/our-methodology/methodology-specifications/petrochemicals/petrochemicals-timing-and-increment-guidelines>.

**Timing:** MTBE assessments reflect material loading in a rolling 3-15 (Monday-Tuesday) or 5-15 (Wednesday through Friday) days forward window from the date of publication.

Participants should allow at least 48 hours nomination period.

**Basis and Location:** Spot prices are assessed daily in \$/mt FOB ARA and reflect T2 (duty paid for European-qualified) material.

Standard cargo size: 1,000mt.

**Product Specifications:** Minimum purity of 98%, maximum water content of 1,000 ppm and maximum methanol content of 1.5% of the total weight.

**Conversion rate:** A factor of 8.45 is used to convert the \$/mt value to \$/b.

**MTBE factor:** The MTBE to gasoline factor expresses the ratio between the daily MTBE assessment basis FOB ARA and the daily Eurobob FOB AR spot assessment [AAQZV00].

**MTBE spread:** The MTBE to gasoline spread expresses the differential between the daily MTBE assessment basis FOB ARA and the daily Eurobob FOB AR front-month financial derivative [ABWFC00].

Platts considers all relevant market information when assessing MTBE, including outright indications, the MTBE factor, MTBE spread and relationships to adjacent markets.

#### ETBE

**Assessment Window:** Assessments are based on the latest information from the market up to the close of the daily assessment window at 4:30 pm London time. The ETBE Market-on-Close assessment process is facilitated through the eWindow communication tool. For further details please consult the Chemicals timing and increment guidelines at <https://www.spglobal.com/platts/en/our-methodology/methodology-specifications/petrochemicals/petrochemicals-timing-and-increment-guidelines>.

**Timing:** ETBE assessments reflect material loading in a rolling 3-15 (Monday-Tuesday) or 5-15 (Wednesday through Friday) days forward window from the date of publication.

Participants should allow at least 48 hours nomination period.

**Basis and Location:** Spot prices are assessed daily in \$/mt FOB AR and reflect T2 (duty paid for European-qualified) material.

Standard cargo size: 1,000mt.

**Product Specifications:** Bids, offers and trades in the Platts MOC reflect the value of 100% ETBE purity while the purity on loading is minimum 90% ETBE and minimum 95% ethers. Percentage price adjustments for purity post trade are based on the following formula: ETBE FOB AR flat price [AASLQ00] = MTBE FOB ARA [PHALA00] + (ETBE premium [AASLQ02] x % purity). Due to the differing ETBE purity in tanks ahead of loading, price adjustments for purity are based on the ETBE formula at the time of load, and not at the time of trade.

**Conversion rate:** A factor of 8.42 is used to convert the \$/mt value to \$/b.

**ETBE spread:** The ETBE to MTBE spread expresses the differential between the daily ETBE assessment basis FOB AR and the daily MTBE FOB ARA assessment.

**Sustainability Criteria:** ETBE assessments reflect material

with sustainability documentation showing a maximum carbon intensity, or CI, of 41.90 grams of CO<sub>2</sub> equivalent per megajoule of energy, based on the prevailing fossil fuel comparator under EU Renewable Energy Directive (RED) requirements. As of January 2021, the fossil fuel comparator per the RED I framework is 83.8g CO<sub>2</sub>e/MJ.

The seller shall provide proof of sustainability documentation obtained in the framework of voluntary schemes approved by the European Commission within 30 calendar days from barge loading and the buyer holds a right to audit the sustainability documentation for the sole purpose of determining the validity and veracity of these documents.

#### Raffinate – 1

**Assessment Window:** Assessments are based on the latest information from the market up to the close of the assessment

window at 4:30 pm London time Friday or last working day of the week in case of holidays.

**Timing:** Assessments reflect material for delivery 3-30 days forward from the date of publication.

**Basis and Location:** Spot prices are assessed weekly in \$/mt CIF NWE.

**Standard cargo size:** 1,000mt.

**Product Specifications:** For product with a minimum isobutene content of 35%.

**Raffinate-1 factor:** The factor expresses the ratio between the weekly assessment of raffinate-1 basis CIF NWE and the physical naphtha assessment basis CIF NWE [PAAAL00] on the same day.

## Polymers

Assessment	Currency	Code	Mavg	Wavg	Type	Basis	Location	Delivery Period	Min Size (Mt)	Max Size	Uom	Page	Mavg	Wavg
<b>Polyethylene</b>														
HDPE B/Mldg CFR North Africa Weekly	USD	AAVWI00	AAVWS00		Spot	CFR	North Africa	15-45 days forward	100	500	MT	PC0239		
HDPE B/Mldg CFR West Africa	USD	ABAAI04	ABAAI03		Spot	CFR	West Africa	15-45 days forward	100	500	MT	PC0239		
HDPE B/Mldg CFR Turkey Weekly	USD	AAWX000	AAWX003		Spot	CFR	Mediterranean	3-30 days forward	100	500	MT	PC0239		
HDPE B/Mldg FCA Antwerp Spot Daily	EUR	AAVKE00	AAVKE03	AAVKE04	Spot	FCA	Northwest Europe	3-30 days forward	25	100	MT	PC0239		
HDPE B/Mldg FD UK CP Weekly	GBP	PHAMI00	PHBEG03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE B/Mldg FD NWE CP Weekly	USD	PHAHH00	PHBBD03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0263		
HDPE B/Mldg FD NWE Spot Daily	EUR	AALUF00	AALUG00	AALUF04	Spot	FD	Northwest Europe	3-30 days forward	25	100	MT	PC0239		
HDPE B/Mldg FOB NWE Weekly	USD	PHAHI00	PHBBE03		Spot	FOB	Northwest Europe	3-30 days forward	300		MT	PC0239		
HDPE B/Mldg FD France CP Weekly	EUR	HPAMH00	HPBEF03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE B/Mldg FD Germany CP Weekly	EUR	HPAME00	HPBEC03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE B/Mldg FD Holland CP Weekly	EUR	HPAMF00	HPBED03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE B/Mldg FD Italy CP Weekly	EUR	HPAMG00	HPBEE03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE B/Mldg FD Spain CP Weekly	EUR	HPAWE04	HPAWF03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE Film CFR North Africa Weekly	USD	AAVWH00	AAVWH03		Spot	CFR	North Africa	15-45 days forward	100	500	MT	PC0239		
HDPE Film CFR West Africa Weekly	USD	ABAAK04	ABAAK03		Spot	CFR	West Africa	15-45 days forward	100	500	MT	PC0239		
HDPE Film CFR Turkey Weekly	USD	AAWXP00	AAWXP03		Spot	CFR	Mediterranean	3-30 days forward	100	500	MT	PC0239		
HDPE Film FCA Antwerp Spot Daily	EUR	AAVKF00	AAVKF03	AAVKF04	Spot	FCA	Northwest Europe	3-30 days forward	25	100	MT	PC0239		
HDPE Film FD UK CP Weekly	GBP	PHAVL00	PHAVM03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE Film FD NWE CP Weekly	USD	PHAVD00	PHAVE03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0263		
HDPE Film FD NWE Spot Daily	EUR	AALUH00	AALUI00	AALUH04	Spot	FD	Northwest Europe	3-30 days forward	25	100	MT	PC0239		
HDPE Film FOB NWE Weekly	USD	PHAVB00	PHAVC03		Spot	FOB	Northwest Europe	3-30 days forward	300		MT	PC0239		
HDPE Film FD France CP Weekly	EUR	HPAVN00	HPAVO03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE Film FD Germany CP Weekly	EUR	HPAVF00	HPAVG03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE Film FD Holland CP Weekly	EUR	HPAVH00	HPAVI03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE Film FD Italy CP Weekly	EUR	HPAVJ00	HPAVK03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE Film FD Spain CP Weekly	EUR	HPAWG04	HPAWH03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE HMW 2-5 FD UK CP Weekly	GBP	AAVJV00	AAVJV03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE HMW 2-5 FD France CP Weekly	EUR	AAVJU00	AAVJU03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE HMW 2-5 FD Germany CP Weekly	EUR	AAVJR00	AAVJR03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE HMW 2-5 FD Holland CP Weekly	EUR	AAVJS00	AAVJS03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE HMW 2-5 FD Italy CP Weekly	EUR	AAVJW00	AAVJW03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE HMW 2-5 FD NWE CP Weekly	USD	AAVJT00	AAVJT03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0263		
HDPE HMW 2-5 FD Spain CP Weekly	EUR	AAVJZ00	AAVJZ03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE HMW 5-10 FD UK CP Weekly	GBP	AAVPE00	AAVPE03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE HMW 5-10 FD France CP Weekly	EUR	AAVPD00	AAVPD03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE HMW 5-10 FD Germany CP Weekly	EUR	AAVPA00	AAVPA03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	

## Polymers

Assessment	Currency	Code	Mavg	Wavg	Type	Basis	Location	Delivery Period	Min Size (Mt)	Max Size	Uom	Page	Mavg	Wavg
HDPE HMW 5-10 FD Holland CP Weekly	EUR	AAVPB00	AAVPB03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE HMW 5-10 FD Italy CP Weekly	EUR	AAVPF00	AAVPF03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE HMW 5-10 FD NWE CP Weekly	USD	AAVPC00	AAVPC03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0263		
HDPE HMW 5-10 FD Spain CP Weekly	EUR	AAVPG00	AAVPG03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE Inj CFR North Africa Weekly	USD	AAVWG00	AAVWG03		Spot	CFR	North Africa	15-45 days forward	100	500	MT	PC0239		
HDPE Inj CFR West Africa Weekly	USD	ABAAJ04	ABAAJ03		Spot	CFR	West Africa	15-45 days forward	100	500	MT	PC0239		
HDPE Inj CFR Turkey Weekly	USD	AAWXN00	AAWXN03		Spot	CFR	Mediterranean	3-30 days forward	100	500	MT	PC0239		
HDPE Inj FCA Antwerp Spot Daily	EUR	AAVKD00	AAVKD03	AAVKD04	Spot	FCA	Northwest Europe	3-30 days forward	25	100	MT	PC0239		
HDPE Inj FD UK CP Weekly	GBP	PHAMN00	PHBEB03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE Inj FD NWE CP Weekly	USD	PHAHL00	PHBAY03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0263		
HDPE Inj FD NWE Spot Daily	EUR	AALUD00	AALUE00	AALUD04	Spot	FD	Northwest Europe	3-30 days forward	25	100	MT	PC0239		
HDPE Inj FOB NWE Weekly	USD	PHAHM00	PHBAZ03		Spot	FOB	Northwest Europe	3-30 days forward	300		MT	PC0239		
HDPE Inj FD France CP Weekly	EUR	HPAMM00	HPBEA03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE Inj FD Germany CP Weekly	EUR	HPAMJ00	HPBDX03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE Inj FD Holland CP Weekly	EUR	HPAMK00	HPBDY03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE Inj FD Italy CP Weekly	EUR	HPAML00	HPBDZ03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0443	
HDPE Inj FD Spain CP Weekly	EUR	HPAWC04	HPAWD03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0443	
LLDPE Metallocene C6 FD NWE Weekly	EUR	AAQCZ00	AAQCZ03		Spot	FD	Northwest Europe	3-30 days forward	25	100	MT	PC268		
LLDPE Standard C6 FD NWE Weekly	EUR	AAQCY00	AAQCY03		Spot	FD	Northwest Europe	3-30 days forward	25	100	MT	PC268		
LLDPE G-P CFR Turkey Weekly	USD	AAWXM00	AAWXM03		Spot	CFR	Mediterranean	3-30 days forward	100	500	MT	PC0268		
LLDPE C6 Blown FD NWE CP Weekly	EUR	AAQCB00	AAQCB03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240		
LLDPE C6 CSF FD NWE CP Weekly	EUR	AAQCC00	AAQCC03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240		
LLDPE G-P CFR North Africa Weekly	USD	AAVWF00	AAVWF03		Spot	CFR	North Africa	15-45 days forward	100	500	MT	PC0239		
LLDPE Butene CFR West Africa Weekly	USD	ABAAH04	ABAAH03		Spot	CFR	West Africa	15-45 days forward	100	500	MT	PC0239		
LLDPE CSF FD UK CP Weekly	GBP	AAPFS00	AAPFS03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
LLDPE CSF FD France CP Weekly	EUR	AAPFQ00	AAPFQ03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
LLDPE CSF FD Germany CP Weekly	EUR	AAPFN00	AAPFN03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
LLDPE CSF FD Holland CP Weekly	EUR	AAPF000	AAPF003		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
LLDPE CSF FD Italy CP Weekly	EUR	AAPFP00	AAPFP03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0443	
LLDPE CSF FD NWE CP Weekly	USD	AAPFM00	AAPFM03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0268		
LLDPE CSF FD Spain CP Weekly	EUR	AAPFR00	AAPFR03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0443	
LLDPE G-P FD NWE CP Weekly	USD	PHAGY00	PHBAU03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0263		
LLDPE G-P FD UK CP Weekly	GBP	PHAMD00	PHBDW03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
LLDPE G-P FCA Antwerp	EUR	AAVKA00	AAVKA03	AAVKA04	Spot	FCA	Northwest Europe	3-30 days forward	25	100	MT	PC571		PC0573
LLDPE G-P FD France CP Weekly	EUR	HPAMC00	HPBDV03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
LLDPE G-P FD NWE Spot	EUR	AALUL00	AALUM00	AAQNR00	Spot	FD	Northwest Europe	3-30 days forward	25	100	MT	PC571		PC0573
LLDPE G-P FD Germany CP Weekly	EUR	HPALZ00	HPBDS03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	

## Polymers

Assessment	Currency	Code	Mavg	Wavg	Type	Basis	Location	Delivery Period	Min Size (Mt)	Max Size	Uom	Page	Mavg	Wavg
LLDPE G-P FD Holland CP Weekly	EUR	HPAMA00	HPBDT03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
LLDPE G-P FD Italy CP Weekly	EUR	HPAMB00	HPBDU03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0443	
LLDPE G-P Spain CP Weekly	EUR	HPAWA04	HPAWB03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0443	
LDPE G-P CFR North Africa Weekly	USD	AAVWE00	AAVWE03		Spot	CFR	North Africa	15-45 days forward	100	500	MT	PC0239		
LDPE G-P CFR West Africa Weekly	USD	ABAAG04	ABAAG03		Spot	CFR	West Africa	15-45 days forward	100	500	MT	PC0239		PC0573
LDPE G-P FCA Antwerp	EUR	AAVKB00	AAVKB03	AAVKB04	Spot	FCA	Northwest Europe	3-30 days forward	25	100	MT	PC571		PC0573
LDPE G-P FD NWE Spot	EUR	AALUJ00	AALUK00	AAQNQ00	Spot	FD	Northwest Europe	3-30 days forward	25	100	MT	PC571		
LDPE G-P CFR Turkey Weekly	USD	AAWL00	AAWL03		Spot	CFR	Mediterranean	3-30 days forward	100	500	MT	PC0239	PC0443	
LDPE G-P FD UK CP Weekly	GBP	PHALY00	PHBDR03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240		
LDPE G-P FD NWE CP Weekly	USD	PHAHR00	PHBAP03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0263	PC0443	
LDPE G-P FD Spain CP Weekly	EUR	HPAVY04	HPAVZ03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240		
LDPE G-P FOB NWE Spot Weekly	USD	PHAHS00	PHBAQ03		Spot	FOB	Northwest Europe	3-30 days forward	300		MT	PC0239	PC0443	
LDPE G-P FD France CP Weekly	EUR	HPALX00	HPBDQ03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
LDPE G-P FD Germany CP Weekly	EUR	HPALU00	HPBDN03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
LDPE G-P FD Holland CP Weekly	EUR	HPALV00	HPBDQ03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
LDPE FD G-P Italy CP Weekly	EUR	HPALW00	HPBDP03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240		
LLDPE C6 CSF FD NWE CP Weekly	USD	AAQCC10	AAQCC13		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0268		
LLDPE C6 Blown FD NWE CP Weekly	USD	AAQCB10	AAQCB13		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0268		

## Polypropylene

PP Homo Injection Germany CP Weekly	EUR	HPAMY00	HPBER03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0445	
PP Homo Injection Holland CP Weekly	EUR	HPAMZ00	HPBES03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0445	
PP Homo Injection Italy CP Weekly	EUR	HPANA00	HPBET03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0445	
PP Homo Injection France CP Weekly	EUR	HPANB00	HPBEU03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0445	
PP Homo Injection Spain CP Weekly	EUR	HPAWI04	HPAWJ03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0445	
PP Homo Injection UK CP Weekly	GBP	PHANC00	PHBEV03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240		
PP Homo Injection FD NWE CP Weekly	USD	PHAI00	PHBBS03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0263	PC0445	
PP Copol Germany CP Weekly	EUR	HPAND00	HPBEW03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0445	
PP Copol Holland CP Weekly	EUR	HPANE00	HPBEX03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0445	
PP Copol Italy CP Weekly	EUR	HPANF00	HPBEY03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0445	
PP Copol France CP Weekly	EUR	HPANG00	HPBEZ03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0445	
PP Copol Spain CP Weekly	EUR	HPAWK04	HPAWT03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0445	
PP Copol UK CP Weekly	GBP	PHANH00	PHBFA03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240		
PP Copol FD NWE CP Weekly	USD	PHAHX00	PHBCF03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0263		
PP Homo Injection FOB NWE Weekly	USD	PHAI00	PHBBT03		Spot	FOB	Northwest Europe	3-30 days forward	300		MT	PC0239		PC0573
PP Homo Injection FD NWE	EUR	AALUR00	AALUS00	AAQNS00	Spot	FD	Northwest Europe	3-30 days forward	20		MT	PC571		PC0573
PP Homo Injection FCA Antwerp	EUR	AAVKC00	AAVKC03	AAVKC04	Spot	FCA	Northwest Europe	3-30 days forward	20		MT	PC571		
PP Homo Injection CFR Turkey Weekly	USD	AAWXQ00	AAWXQ03		Spot	CFR	Mediterranean	3-30 days forward	100	500	MT	PC0239		



## Polymers

Assessment	Currency	Code	Mavg	Wavg	Type	Basis	Location	Delivery Period	Min Size (Mt)	Max Size	Uom	Page	Mavg	Wavg
PP Fiber CFR Turkey Daily	USD	APPFA00	APPFA03	APPFA04	Spot	CFR	Mediterranean	3-30 days forward	100	500	MT	PC0239 , PC0571		PC0573
PP Raffia CFR Turkey Weekly	USD	AAVKG00	AAVKG03		Spot	CFR	Mediterranean	3-30 days forward	100	500	MT	PC0239		
PP Copol FOB NWE Weekly	USD	PHAHY00	PHBCG03		Spot	FOB	Northwest Europe	3-30 days forward	300		MT	PC0239		
PP Copol FD NWE Weekly	EUR	AALUT00	AALUU00		Spot	FD	Northwest Europe	3-30 days forward	20		MT	PC0239		
PP Copol FCA Antwerp Weekly	EUR	AAVYS00	AAVYS03		Spot	FCA	Northwest Europe	3-30 days forward	20		MT	PC0239		
PP Copol CFR Turkey Weekly	USD	AAWXR00	AAWXR03		Spot	CFR	Mediterranean	3-30 days forward	100	500	MT	PC0239		
PP Homo Injection CFR North Africa Weekly	USD	AAVWJ00	AAVWJ03		Spot	CFR	North Africa	15-45 days forward	100	500	MT	PC0239		
PP Raffia CFR North Africa Weekly	USD	AAVWK00	AAVWK03		Spot	CFR	North Africa	15-45 days forward	100	500	MT	PC0239		
PP Copol CFR North Africa Weekly	USD	AAVWL00	AAVWL03		Spot	CFR	North Africa	15-45 days forward	100	500	MT	PC0239		
PP Homo Injection CFR West Africa Weekly	USD	ABAAL04	ABAAL03		Spot	CFR	West Africa	15-45 days forward	100	500	MT	PC0239		
PP Copol CFR West Africa Weekly	USD	ABAAM04	ABAAM03		Spot	CFR	West Africa	15-45 days forward	100	500	MT	PC0239		
PP Raffia CFR West Africa Weekly	USD	ABAAN04	ABAAN03		Spot	CFR	West Africa	15-45 days forward	100	500	MT	PC0239		

## Polystyrene

PS G-P FD NWE spot Weekly	EUR	AALUN00	AALU000		Spot	FD	Northwest Europe	3-30 days forward	20		MT	PC0276		
PS G-P FOB NWE spot Weekly	USD	PHAIK00	PHBBJ03		Spot	FOB	Northwest Europe	3-30 days forward	300		MT	PC0276		
PS G-P Net FD NWE CP Weekly	USD	AAUEL00	AAUEL03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0276	PC0443	
PS G-P Net FD UK CP Weekly	GBP	HPTSC00	HPTSC03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0276	PC0443	
PS G-P Net FD France CP Weekly	EUR	HPTSA00	HPTSA03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0276	PC0443	
PS G-P Net FD Germany CP Weekly	EUR	HPTRU00	HPTRU03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0276	PC0443	
PS G-P Net FD Holland CP Weekly	EUR	HPTRW00	HPTRW03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0276	PC0443	
PS G-P Net FD Italy CP Weekly	EUR	HPTRY00	HPTRY03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0276	PC0443	
PS G-P Net FD Spain CP Weekly	EUR	HPTSE00	HPTSE03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0276		
PS G-P CFR Turkey Weekly	USD	AAWYN00	AAWYN03		Spot	CFR	Mediterranean	3-30 days forward	100	500	MT	PC0239		
PS G-P CFR North Africa Weekly	USD	AAVWM00	AAVWM03		Spot	CFR	North Africa	3-30 days forward	100	500	MT	PC0239		
HIPS FD NWE spot Weekly	EUR	AALUP00	AALUQ00		Spot	FD	Northwest Europe	3-30 days forward	20		MT	PC0276		
HIPS FOB NWE spot Weekly	USD	PHAIQ00	PHBB003		Spot	FOB	Northwest Europe	3-30 days forward	300		MT	PC0276		
HIPS Net FD NWE CP Weekly	USD	AAUEK00	AAUEK03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0276	PC0443	
HIPS Net FD UK CP Weekly	GBP	HPTSD00	HPTSD03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0276	PC0443	
HIPS Net FD France CP Weekly	EUR	HPTSB00	HPTSB03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0276	PC0443	
HIPS Net FD Germany CP Weekly	EUR	HPTRV00	HPTRV03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0276	PC0443	
HIPS Net FD Holland CP Weekly	EUR	HPTRX00	HPTRX03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0276	PC0443	
HIPS Net FD Italy CP Weekly	EUR	HPTRZ00	HPTRZ03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0276	PC0443	

## Polymers

Assessment	Currency	Code	Mavg	Wavg	Type	Basis	Location	Delivery Period	Min Size (Mt)	Max Size	Uom	Page	Mavg	Wavg
HIPS Net FD Spain CP Weekly	EUR	HPTSF00	HPTSF03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0276		
HIPS CFR North Africa Weekly	USD	AAVWN00	AAVWN03		Spot	CFR	North Africa	3-30 days forward	100	500	MT	PC0239		
HIPS CFR Turkey Weekly	USD	AAWY000	AAWY003		Spot	CFR	Mediterranean	3-30 days forward	100	500	MT	PC0239	PC0443	
EPS FD NWE spot Weekly	EUR	AAVKR00	AAVKR03		Spot	FD	Northwest Europe	3-30 days forward	20		MT	PC0276		
EPS FOB NWE Weekly	USD	AAVKV00	AAVKV03		Spot	FOB	Northwest Europe	3-30 days forward	300		MT	PC0276		
EPS Net FD Spain CP Weekly	EUR	AAVKQ00	AAVKQ03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0276	PC0443	
EPS Net FD UK CP Weekly	GBP	AAVKP00	AAVKP03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0276	PC0443	
EPS Net FD France CP Weekly	EUR	AAVKO00	AAVKO03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0276	PC0443	
EPS Net FD Germany CP Weekly	EUR	AAVKL00	AAVKL03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0276	PC0443	
EPS Net FD Holland CP Weekly	EUR	AAVKM00	AAVKM03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0276	PC0443	
EPS Net FD Italy CP Weekly	EUR	AAVKN00	AAVKN03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0276		
EPS Net FD NWE CP Weekly	USD	AAVKU00	AAVKU03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0276		
EPS CFR Turkey Weekly	USD	AAVKW00	AAVKW03		Spot	CFR	Mediterranean	3-30 days forward	100	500	MT	PC0239		
<b>Polyethylene Terephthalate (PET)</b>														
PET FD NWE Weekly	EUR	AAXOB00	AAXOB03		Spot	FD	Northwest Europe	3-30 days	20		MT	PC0239		
PET FD UK Weekly	EUR	AAXOC00	AAXOC03		Spot	FD	UK	3-30 days	20		MT	PC0239		
PET FD UK Weekly	GBP	AAXOD00	AAXOD03		Spot	FD	UK	3-30 days	20		MT	PC0239		
PET Bottle Grade FD France CP Weekly	EUR	AACVB00	AACVC00		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0445	
PET Bottle Grade FD Italy CP Weekly	EUR	AACVI00	AACVK00		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0445	
PET Bottle Grade FD UK CP Weekly	GBP	AACVL00	AACVM00		Contract	FD	UK	Current month	3000/year	6000/year	MT	PC0240	PC0445	
PET Bottle Grade FD UK CP Weekly	EUR	AACVN00	AACVO00		Contract	FD	UK	Current month	3000/year	6000/year	MT	PC0240		
PET Bottle Grade FD NWE CP Weekly	EUR	AACVR00	AACVS00		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0263	PC0445	
PET Bottle Grade FD Spain CP Weekly	EUR	AACWG00	AACWH00		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240		
PET Bottle Grade FD NWE Net CP Weekly	EUR	AAVLE04	AAVLE03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0263		
PET Bottle Grade FD NWE Net CP Weekly	USD	AAVLE10	AAVLE13		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0506	PC0445	
PET Bottle Grade FD UK Net CP Weekly	GBP	AAVLF04	AAVLF03		Contract	FD	UK	Current month	3000/year	6000/year	MT	PC0240	PC0445	
PET Bottle Grade FD UK Net CP Weekly	EUR	AAVLG04	AAVLG03		Contract	FD	UK	Current month	3000/year	6000/year	MT	PC0240		
APET Film Grade FD NWE CP Weekly	EUR	AACWV00	AACWV00		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0263		
APET Film Grade FD NWE Net CP Weekly	EUR	AAVLH04	AAVLH03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0263		

## Polymers

Assessment	Currency	Code	Mavg	Wavg	Type	Basis	Location	Delivery Period	Min Size (Mt)	Max Size	Uom	Page	Mavg	Wavg
<b>Polyvinyl Chloride (PVC)</b>														
PVC Susp FOB NWE Spot Weekly	USD	PHAIW00	PHBAL03		Spot	FOB	Northwest Europe	3-30 days	300		MT	PC0239		
PVC Susp FD NWE Spot Weekly	EUR	AALUV00	AALUW00		Spot	FD	Northwest Europe	3-30 days	20		MT	PC0239	PC0442	
PVC Susp CFR Russia Spot Weekly	USD	AAXCK00	AAXCK03		Spot	CFR	Russia	3-30 days			MT	PC0239		
PVC Susp CFR Russia Weekly	EUR	AAUMR00	AAUMR03		Spot	CFR	Russia	3-30 days			MT	PC0239		
PVC Susp CFR Turkey Weekly	USD	AAWXK00	AAWXK03		Spot	CFR	Mediterranean	3-30 days	100	500	MT	PC0239	PC0443	
PVC Susp FD Germany CP Gross Weekly	EUR	HPALP00	HPBDI03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
PVC Susp FD Holland CP Gross Weekly	EUR	HPALQ00	HPBDJ03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
PVC Susp FD Italy CP Gross Weekly	EUR	HPALR00	HPBDK03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0443	
PVC Susp FD France CP Gross Weekly	EUR	HPALS00	HPBDL03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
PVC Susp FD Spain CP Gross Weekly	EUR	HPAVN04	HPAVX03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0443	
PVC Susp FD UK CP Gross Weekly	GBP	PHALT00	PHBDM03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240		
PVC Susp FD NWE CP Weekly	USD	PHAIV00	PHBAK03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0260	PC0443	
PVC Susp FD Germany CP Net Weekly	EUR	AAXCE00	AAXCE03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
PVC Susp FD Holland CP Net Weekly	EUR	AAXCF00	AAXCF03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
PVC Susp FD Italy CP Net Weekly	EUR	AAXCG00	AAXCG03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0443	
PVC Susp FD France CP Net Weekly	EUR	AAXCH00	AAXCH03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0443	
PVC Susp FD Spain CP Net Weekly	EUR	AAXCJ00	AAXCJ03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0443	
PVC Susp FD UK CP Net Weekly	GBP	AAXCI00	AAXCI03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240		
<b>Acrylonitrile Butadiene Styrene (ABS)</b>														
ABS Auto Black Spain CP Weekly	EUR	HPAWR04	HPAWS03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0445	
ABS Auto Black Italy CP Weekly	EUR	HPANN00	HPBFG03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0445	
ABS Auto Black Germany CP Weekly	EUR	HPANM00	HPBFF03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0445	
ABS Auto Black France CP Weekly	EUR	HPANO00	HPBFH03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0445	
ABS Auto Black FD UK CP Weekly	GBP	PHANP00	PHBFI03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0445	
ABS Average Color Italy Weekly	EUR	HPANJ00	HPBHM03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0445	
ABS Average Avg Color Spain CP Weekly	EUR	HPAWP04	HPAWQ03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0445	
ABS Average Color Germany CP Weekly	EUR	HPANI00	HPBFB03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0445	
ABS Average Color France CP Weekly	EUR	HPANK00	HPBFD03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0445	
ABS Average Color FD UK CP Weekly	GBP	PHANL00	PHBFE03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240		
ABS Avg Color FD NWE Contract CP Weekly	USD	PHAHD00			Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0263	PC0445	
ABS GP/Nat FD Spain CP Weekly	EUR	AAQCP00	AAQCP03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0445	
ABS GP/Nat FD Italy CP Weekly	EUR	AAQCN00	AAQCN03		Contract	FD	Mediterranean	Current month	3000/year	6000/year	MT	PC0240	PC0445	
ABS GP/Nat FD Germany CP Weekly	EUR	AAQCL00	AAQCL03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0445	
ABS GP/Nat FD France CP Weekly	EUR	AAQC000	AAQC003		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240	PC0445	
ABS GP/Nat FD UK CP Weekly	GBP	AAQCQ00	AAQCQ03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0240		
ABS GP/Nat CFR NWE Weekly Spot	USD	AAQCR00	AAQCR03		Spot	CFR	Northwest Europe	3-30 days forward	300		MT	PC0239		

## Polymers

Assessment	Currency	Code	Mavg	Wavg	Type	Basis	Location	Delivery Period	Min Size (Mt)	Max Size	Uom	Page	Mavg	Wavg
ABS GP/Nat FD NWE Weekly	EUR	AAQCT00	AAQCT03		Spot	FD	Northwest Europe	3-30 days forward	20		MT	PC0239		
ABS GP/Nat FD NWE CP Weekly	USD	AAQCS00	AAQCS03		Contract	FD	Northwest Europe	Current month	3000/year	6000/year	MT	PC0284		
<b>Styrene Butadiene Rubber</b>														
ESBR 1500 FD NWE Weekly	EUR	AAWA00	AAWA03		Spot	FD	Northwest Europe	3-30 days forward	100	200	MT	PC0752	PC0754	
ESBR 1502 FD NWE Weekly	EUR	AAWC00	AAWC03		Spot	FD	Northwest Europe	3-30 days forward	100	200	MT	PC0752	PC0754	
ESBR 1723 FD NWE Weekly	EUR	AAWE00	AAWE03		Spot	FD	Northwest Europe	3-30 days forward	100	200	MT	PC0752	PC0754	
ESBR 1783 FD NWE Weekly	EUR	AAWG00	AAWG03		Spot	FD	Northwest Europe	3-30 days forward	100	200	MT	PC0752	PC0754	
SSBR FD NWE Weekly	EUR	AAWI00	AAWI03		Spot	FD	Northwest Europe	3-30 days forward	100	200	MT	PC0752		
ESBR 1500 FOB NWE Weekly	USD	AAWB00	AAWB03		Spot	FOB	Northwest Europe	3-30 days forward	500		MT	PC0752	PC0754	
ESBR 1502 FOB NWE Weekly	USD	AAWD00	AAWD03		Spot	FOB	Northwest Europe	3-30 days forward	500		MT	PC0752	PC0754	
ESBR 1723 FOB NWE Weekly	USD	AAWF00	AAWF03		Spot	FOB	Northwest Europe	3-30 days forward	500		MT	PC0752	PC0754	
ESBR 1783 FOB NWE Weekly	USD	AAWH00	AAWH03		Spot	FOB	Northwest Europe	3-30 days forward	500		MT	PC0752	PC0754	
SSBR FOB NWE Weekly	USD	AAWJ00	AAWJ03		Spot	FOB	Northwest Europe	3-30 days forward	500		MT	PC0752	PC0754	

## Polymers

**Assessment Window:** Weekly assessments are based on the latest information from the market up to the close of the assessment window at 4:30 pm London time on Wednesday.

**Timing:** Spot price assessments specify delivery or loading 3 to 30 days from the date of publication. European domestic contract prices reflect material delivered during the month of publication. CFR North Africa and CFR West Africa spot assessments reflect product for delivery 15-45 days forward from the date of publication with 60 days net payment terms.

**Basis and Locations:** Platts polymer assessments reflect one or more of the following (see individual polymer market descriptions and table):

- FD NWE (Eur/mt and \$/mt);
- FD UK (GBP/mt);

- FCA Antwerp (Eur/mt);
- FOB NWE basis Amsterdam-Rotterdam-Antwerp (\$/mt);
- CFR NWE (\$/mt);
- CFR Russia basis St Petersburg (\$/mt or Eur/mt);
- CFR Turkey basis Istanbul, excluding import duties (\$/mt);
- CFR North Africa basis Morocco, Algeria, Tunisia and Egypt mainports (\$/mt);
- CFR West Africa basis Nigeria, Ivory Coast, Ghana, Benin and Togo normalized to Lagos (\$/mt)

FD NWE contract prices are calculated by converting FD Germany contract prices from euro to US dollars based on exchange rates as published by Platts.

Unless otherwise stated NWE reflects Belgium, France,

Germany, Luxembourg and the Netherlands.

**Weekly contract assessments:** Platts polymer contract price assessments in Europe reflect gross and/or net prices freely negotiated between contract parties for monthly deliveries assessed each week as confirmation is received both on preliminary data and concluded deals from buyers and sellers. Platts defines a contract price as one negotiated against an annual commitment to supply or procure regular monthly volumes. Contract price assessments do not include additional surcharges such as energy surcharges. Platts may use information on all contractually agreed volumes to form the basis of its assessments, although assessments will be normalized to reflect contractual commitments of 3,000-6,000 mt/year. In the absence of any outright contract price information, Platts will take price direction from the more liquid spot market. Platts may consider other market information including, but not limited to, deltas. Platts prioritizes transparent and verifiable data that has been tested in the market and reflects the negotiated and mutually-agreed absolute price.

## Polyethylene

**Weekly contract assessments:** PE contract assessments reflect gross prices (before discounts).

**Daily spot assessments:** LDPE FD NWE, LLDPE FD NWE, HDPE FD NWE, LDPE FCA Antwerp, LLDPE FCA Antwerp, HDPE FCA Antwerp. Daily HDPE assessments cover blowmolding, injection and film grades.

**Weekly spot assessments:** See table.

**Standard cargo size:** Between 25-100mt lots for domestic business, minimum 300 mt lots for export business. For CFR North Africa, CFR West Africa and Turkey the cargo size is between 100-500 mt lots.

**Product Specifications:** European assessments cover Western European production and/or imported prime material. Product sold in plain or unmarked bags is not included in the assessment unless the market considers such business to be representative.

- **Low Density Polyethylene:** the assessment is for material within the melt flow index of between 0.3-4.0 under standard pressure and temperature; density between 918-920 kg/m<sup>3</sup>.
- **Linear Low Density Polyethylene C4 Blown Film:** butene-grade linear with a melt flow index of around 0.8-1.0, and density between 918-925 kg/m<sup>3</sup>.
- **Linear Low Density Polyethylene C4 Cast Stretch Film:** linear with a melt flow index of between 2.0-3.0, and a density of between 918-925 kg/m<sup>3</sup>.
- **Linear Low Density Polyethylene C6 blown and cast stretch film:** 1-Hexene co-monomer with density between 917-922 kg/m<sup>3</sup> for both cast and blown film and a melt flow index between 0.9-3.5.

- **Linear Low Density Polyethylene metallocene blown and cast stretch film:** 1-Hexene co-monomer based on metallocene catalyst with a density of 912-940 kg/m<sup>3</sup> for both cast and blown film, and a melt flow index between 0.5-4.5.
- **High Density Polyethylene injection grade:** Assessments cover material with a melt flow index between 4.0-8.0 with density between 950-960 kg/m<sup>3</sup>. The major applications for this grade include crates and boxes.
- **High Density Polyethylene blowmolding grade:** Assessments cover medium molecular weight material with a melt flow index between 0.22-0.40 with density between 950-960 kg/m<sup>3</sup>, typically for half liter and 3-4 liter bottle applications.
- **High Density Polyethylene film grade:** Assessments cover uni-modal grade with a melt flow index between 8.0-10.0 and density between 950-960 kg/m<sup>3</sup>.
- **High Density Polyethylene high molecular weight:** Assessments cover material with a high load melt index (HLMI) of between 2.0-5.0 and 5.0-10.0, and density of between 950-955 kg/m<sup>3</sup>.

## Polypropylene

**Weekly contract assessments:** PP contract assessments reflect gross prices (before discounts).

**Daily spot assessments:** PP homo injection FD NWE, PP homo injection FCA Antwerp, PP fiber CFR Turkey.

**Weekly spot assessments:** See table.

**Standard cargo size:** Minimum 20mt lots for domestic business, 300mt lots for export business. For CFR North Africa, CFR West Africa and Turkey the cargo size is between 100-500mt lots. **Product Specifications:** Assessments cover Western European production and/or imported prime material. Product sold in

plain or unmarked bags is not included in the assessment unless the market considers such business to be representative.

- **Polypropylene homopolymer injection grade:** Assessments cover materials with a melt flow index between 5.0-30.0.
- **Polypropylene block copolymer grade:** Assessments cover material with a melt flow index between 2.0-30.0.
- **Polypropylene raffia grade:** Assessments cover CFR Turkey, CFR North Africa and CFR West Africa only, with a minimum melt flow index of 3.5 without additives.
- **Polypropylene fiber grade:** Assessments cover CFR Turkey for material with a melt flow index of 18.0-35.0 g/10min at 230C.

## Polystyrene

Polystyrene assessments cover general purpose grade (GPPS), high impact (HIPS) and expandable (EPS).

**Weekly contract assessments:** GPPS, HIPS and EPS contract assessments reflect net prices (after discounts).

**Weekly spot assessments:** See table.

**Standard cargo size:** Minimum 20mt lots for inland domestic business, 300mt lots for export business. For CFR North Africa and Turkey the cargo size is between 100-500mt lots.

**Product Specifications:** European assessments cover Western European production and/or imported prime material. Product sold in plain or unmarked bags is not included in the assessment unless the market considers such business to be representative.

In NWE, the GPPS assessment covers material with a melt flow index of between 1.0-20.0 while the HIPS assessment is for product with a melt flow index of between 2.0-20.0. The

EPS assessment is for product used in insulation with flame retardant properties.

### Polyethylene Terephthalate (PET)

**Weekly contract assessments:** PET contract assessments reflect net prices (after discounts). Gross prices (before discounts) are calculated based on typical net-to-gross spreads.

**Weekly spot assessments:** See table.

**Standard spot cargo size:** Minimum 20mt lots for domestic business.

**Product Specifications:** Bottle and film grade assessments cover Western European production and/or imported prime material. Product sold in plain or unmarked bags is not included in the assessment unless the market considers such business to be representative.

Bottle grade assessments cover standard bottle-grade material with an IV of between 0.7-0.86 and is B\* neutral. The film grade assessment refers to APET sheet with the same characteristics.

(Notes: IV refers to intrinsic viscosity, a measure of molecular weight, or the degree of its polymerization. An IV value in the range that Platts quotes represents a commodity grade plastic, which is usually used for mineral water. B\* is a measure of the degree of yellowness of the resin.)

### Polyvinyl Chloride (PVC)

**Weekly contract assessments:** PVC contract assessments reflect net prices (after discounts). Gross prices (before discounts) are calculated based on typical net-to-gross spreads.

**Weekly spot assessments:** See table.

**Standard cargo size:** Minimum volume of 20 mt lots for domestic business and 300mt lots for export business. For Turkey the cargo size is between 100-500mt lots.

**Product Specifications:** Pipe-grade suspension PVC with a K-value of 66-68.

### Acrylonitrile Butadiene Styrene (ABS)

**Weekly contract assessments:** ABS contract assessments reflect gross prices (before discounts).

**Weekly spot assessments:** See table.

**Standard spot cargo size:** Minimum volume of 20mt lots for domestic business and 300mt lots for export business.

**Product Specifications:** Platts assesses the base ABS grade known as general purpose/natural grade resins. This is injection grade material with a melt flow index of 10.0-40.0. Platts also assesses average color and auto black grades. Platts acknowledges the variance in price of colored versus auto black resins depending on the color of the resin. The assessments for

colored/auto black resins are based on Platts best estimate, taking into account the premium over natural grade resin as reported by market participants.

### Styrene Butadiene Rubber (SBR)

**Assessment Window:** Weekly assessments are based on the latest information from the market up to close of the assessment window at 4:30 pm London time Friday or last working day of the week in case of holidays.

**Timing:** Material for delivery or loading 3-30 days forward from the date of publication.

**Basis and Locations:** Platts free delivered assessments of Emulsion SBR and Solution SBR are basis NWE. Platts FOB NWE ESBR and SSBR spot assessments reflect all major Northwest European ports, basis Rotterdam. Other price indications may be taken into consideration and normalized to Rotterdam basis in the assessment process.

**Standard cargo size:** SBR spot assessments on a FD NWE basis reflect standard parcel lots of 100-200 mt or 10-20 containers. Assessments on an FOB NWE basis reflect volumes of 500mt and above.

**Product Specification:** Standard quality ESBR grades 1500, 1502, 1723 and 1783. The SSBR assessment is for solution SBR grades with 25% styrene content and vinyl content ranging between 45% and 64%.

## Recycled Polymers

Assessment	Currency	Code	Mavg	Wavg	Type	Basis	Location	Delivery Period	Min Size	Max Size	Uom	Page	Mavg	Wavg
<b>Recycled Polyethylene Terephthalate (R-PET)</b>														
Post-consumer PET bottle bales FD NWE Daily	EUR	APCBA04	APCBA03	APCBB04	Spot	FD	Northwest Europe	3-30 days	18		MT	PC0503	PC0441	PC0574
Recycled PET clear flakes FD NWE Daily	EUR	AAVKX00	AAVKX03	AAVKX04	Spot	FD	Northwest Europe	3-30 days	20		MT	PC0503	PC0441	PC0574
Recycled PET clear flakes FD UK Daily	GBP	AAVKY00	AAVKY03	AAVKY04	Spot	FD	UK	3-30 days	20		MT	PC0503	PC0441	PC0574
Recycled PET clear flakes FD UK Daily	EUR	AAVKZ00	AAVKZ03	AAVKZ04	Spot	FD	UK	3-30 days	20		MT	PC0503	PC0441	PC0574
Recycled PET mixed colored flakes FD NWE Daily	EUR	ARPFA00	ARPFA03	ARPFA04	Spot	FD	Northwest Europe	3-30 days	20		MT	PC0503	PC0441	PC0574
Recycled PET mixed colored flakes FD UK Daily	GBP	ARPF00	ARPF03	ARPF04	Spot	FD	UK	3-30 days	20		MT	PC0503	PC0441	PC0574
Recycled PET mixed colored flakes FD UK Daily	EUR	ARPF00	ARPF03	ARPF04	Spot	FD	UK	3-30 days	20		MT	PC0503	PC0441	PC0574
Recycled PET food grade pellets FD NWE Daily	EUR	ARPGA04	ARPGA03	ARPGA04	Spot	FD	Northwest Europe	3-30 days	20		MT	PC0503	PC0441	PC0574
Recycled PET food grade pellets FD UK Daily	GBP	ARPG04	ARPG03	ARPG04	Spot	FD	UK	3-30 days	20		MT	PC0503	PC0441	PC0574
Recycled PET food grade pellets FD UK Daily	EUR	ARPG04	ARPG03	ARPG04	Spot	FD	UK	3-30 days	20		MT	PC0503	PC0441	PC0574
<b>Recycled Polyolefins</b>														
Post-consumer mixed HDPE bales FD NWE Daily	EUR	APCHA00	APCHA03	APCHA04	Spot	FD	Northwest Europe	3-30 days	18		MT	PC0503	PC0441	PC0574
Recycled HDPE light pellets FD NWE Daily	EUR	ARHDP00	ARHDP03	ARHDP04	Spot	FD	Northwest Europe	3-30 days	20		MT	PC0503	PC0441	PC0574
Recycled HDPE natural pellets FD NWE Daily	EUR	ARHNP00	ARHNP03	ARHNP04	Spot	FD	Northwest Europe	3-30 days	20		MT	PC0503	PC0441	PC0574
Post-use LDPE Grade A Bales DDP NWE Daily	EUR	ARTPB00	ARTPB03	ARTPB04	Spot	DDP	Northwest Europe	3-30 days	18		MT	PC0503	PC0441	PC0574
Post-use LDPE Grade B Bales DDP NWE Daily	EUR	ARTPC00	ARTPC03	ARTPC04	Spot	DDP	Northwest Europe	3-30 days	18		MT	PC0503	PC0441	PC0574
Recycled LDPE black pellets DDP NWE Daily	EUR	ARBPA00	ARBPA03	ARBPA04	Spot	DDP	Northwest Europe	3-30 days	20		MT	PC0503	PC0441	PC0574
Recycled LDPE grey pellets DDP NWE Daily	EUR	ARGPA00	ARGPA03	ARGPA04	Spot	DDP	Northwest Europe	3-30 days	20		MT	PC0503	PC0441	PC0574
Recycled LDPE translucent pellets DDP NWE Daily	EUR	ARTPA00	ARTPA03	ARTPA04	Spot	DDP	Northwest Europe	3-30 days	20		MT	PC0503	PC0441	PC0574
Recycled PP black pellets DDP NWE Daily	EUR	ARPEA00	ARPEA03	ARPEA04	Spot	DDP	Northwest Europe	3-30 days	20		MT	PC0503	PC0441	PC0574
Recycled PP natural pellets DDP NWE Daily	EUR	ARPEB00	ARPEB03	ARPEB04	Spot	DDP	Northwest Europe	3-30 days	20		MT	PC0503	PC0441	PC0574

### Recycled polymers

**Assessment Window:** Daily assessments are based on the latest information from the market up to the close of the assessment window at 4:30 pm London time.

**Timing:** Spot price assessments specify delivery 3 to 30 days from the date of publication.

### Recycled Polyethylene Terephthalate (R-PET)

**Basis and Locations:** Assessments reflect free delivered product for NWE and UK produced flakes and food-grade pellets

derived from post-consumer virgin PET polymer. Post-consumer PET bottle bales reflect free delivered material in Northwest Europe, excluding France.

**Standard spot cargo size:** Minimum 20mt lots for clear and mixed colored flakes and food-grade pellets, minimum 18mt lots for post-consumer PET bottle bales.

**Product Specifications:** R-PET clear hot-wash flake assessments reflect material with an IV of 0.72-0.78 from 100% post-consumer recycled content. The clear flake has been through a hot-wash process. R-PET mixed colored flakes reflect material with an IV of 0.72-0.78 from 100% post-consumer

recycled content. R-PET food-grade pellet assessments reflect material with a minimum IV of 0.8. Post-consumer PET bottle bales reflect material with a minimum of 80% clear PET content.

### Recycled High Density Polyethylene (R-HDPE)

#### Post-consumer mixed HDPE bales

**Basis and Locations:** Assessments reflect free delivered product for NWE, including Germany, Benelux region and Switzerland.

**Standard spot cargo size:** Minimum 18mt lots.

**Product Specifications:** Post-consumer mixed HDPE bales are of a minimum 80% mixed colored HDPE by weight. Typical impurities, such as LDPE and PP, should not amount to more than 20% by weight.

#### Light pellets

**Basis and Locations:** Assessments reflect free delivered product for NWE-produced non-food-grade pellets derived from post-consumer virgin HDPE polymer.

**Standard spot cargo size:** Minimum 20mt lots.

**Product Specifications:** R-HDPE light pellets are of extrusion/blow molding grade and include light grey or beige colored pellets for consumer packaging applications. Assessments do not reflect natural, black, white and colored pellets. Pellets are non-food-grade.

#### Natural pellets

**Basis and Locations:** Assessments reflect free delivered product for NWE-produced non-food-grade pellets derived from post-consumer virgin HDPE polymer.

**Standard spot cargo size:** Minimum 20mt lots.

**Product Specifications:** R-HDPE natural pellets are of extrusion/blow molding grade and include natural, clear and transparent colored pellets for consumer packaging applications. Pellets are non-food-grade and odorless, with a melt flow index (MFI) of 1-2g/10minutes tested at 190 degrees Celsius/5kg.

### **Recycled Low Density Polyethylene (R-LDPE)**

#### Post-use LDPE Grade A Bales

**Basis and Locations:** Assessments reflect product for delivery duty paid, where applicable, in Northwest Europe. NWE includes Germany, Benelux region, France and Switzerland.

**Standard spot cargo size:** Minimum 18mt lots.

**Product Specifications:** Post-use LDPE Grade A bales contain 100% LDPE film sourced from distribution centers, retailers and companies, containing a minimum of 99% clear and a maximum of 1% non-clear LDPE film and label contamination. Bales are suitable for reprocessing into pellets with an MFI between 0.3-1.2 grams/10 minutes tested at 190 degrees Celsius/2.16kg. Platts defines this bale specification as Grade A, in line with market practice.

#### Post-use LDPE Grade B Bales

**Basis and Locations:** Assessments reflect product for delivery duty paid, where applicable, in Northwest Europe. NWE includes Germany, Benelux region, France and Switzerland.

**Standard spot cargo size:** Minimum 18mt lots.

**Product Specifications:** Post-use LDPE Grade B bales contain 100% LDPE film sourced from distribution centers, retailers and companies, containing a minimum of 98% clear and a maximum of 2% non-clear LDPE film and label contamination. Bales are suitable for reprocessing into pellets with an MFI between 0.3-1.2 grams/10 minutes tested at 190 degrees Celsius/2.16kg.

Platts defines this bale specification as Grade B, in line with market practice.

#### Black pellets

**Basis and Locations:** Assessments reflect product for delivery duty paid, where applicable, in Northwest Europe. NWE includes Germany, Benelux region, France and Switzerland.

**Standard spot cargo size:** Minimum 20mt lots.

**Product Specifications:** R-LDPE black pellets are derived from post-consumer waste, with a melt flow index of between 0.3 and 1.2g/10 minutes tested at 190 degrees Celsius/2.16kg. Pellets are black in color and are non-odorless and non-food-grade.

#### Grey pellets

**Basis and Locations:** Assessments reflect product for delivery duty paid, where applicable, in NWE. NWE includes Germany, Benelux region, France and Switzerland.

**Standard spot cargo size:** Minimum 20mt lots.

**Product Specifications:** R-LDPE grey pellets are derived from post-consumer waste, with a melt flow index of between 0.3 and 1.2g/10 minutes tested at 190 degrees Celsius/2.16kg. Pellets are grey in color and are non-odorless and non-food-grade.

#### Translucent pellets

**Basis and Locations:** Assessments reflect product for delivery duty paid, where applicable, in NWE. NWE includes Germany, Benelux region, France and Switzerland.

**Standard spot cargo size:** Minimum 20mt lots.

**Product Specifications:** R-LDPE translucent pellets are derived from post-consumer waste, with a melt flow index of between 0.3 and 1.2g/10 minutes tested at 190 degrees Celsius/2.16kg. Pellets are translucent, suitable for clear or transparent packaging, and are odorless and non-food-grade.

### **Recycled Polypropylene (R-PP)**

#### Black pellets

**Basis and Locations:** Assessments reflect product for delivery duty paid, where applicable, in Northwest Europe. NWE includes Germany, Benelux region, France and Switzerland.

**Standard spot cargo size:** Minimum 20mt lots.

**Product Specifications:** R-PP black pellets are derived from post-consumer waste, with a melt flow index of between 20 and 25 g/10 minutes tested at 230 degrees Celsius/2.16kg. Pellets are non-odorless and non-food-grade.



**Natural pellets**

**Basis and Locations:** Assessments reflect product for delivery duty paid, where applicable, in Northwest Europe. NWE includes Germany, Benelux region, France and Switzerland.

**Standard spot cargo size:** Minimum 20mt lots.

**Product Specifications:** R-PP natural colored pellets are derived from post-consumer waste, with a melt flow index of between 20 and 25 g/10 minutes tested at 230 degrees Celsius/2.16kg. Pellets are non-odorless and non-food-grade.

## Recycled and Virgin Polymer Spot Price Spreads

Symbol	Symbol Description	First Assessment Symbol Description	Symbol	Second Assessment Symbol Description	Symbol	Region	Frequency
ARPTA00	R-PET clear flakes spread to virgin PET FD NWE	Recycled PET clear flakes FD NWE	AAVXX04	Virgin PET FD NWE	AAXOB00	Northwest Europe	Weekly
ARPTB00	R-PET food-grade pellets spread to virgin PET FD NWE	Recycled PET food-grade pellets FD NWE	ARPGE04	Virgin PET FD NWE	AAXOB00	Northwest Europe	Weekly
ARPTC00	R-PET food-grade pellets spread to R-PET clear flakes FD NWE	Recycled PET food-grade pellets FD NWE	ARPGE04	Recycled PET clear flakes FD NWE	AAVXX00	Northwest Europe	Weekly
ARPTD00	R-PET clear flakes spread to post-consumer PET bottle bales FD NWE	Recycled PET clear flakes FD NWE	AAVXX04	Post-consumer PET bottle bales FD NWE	APCBA04	Northwest Europe	Weekly
ARPTE00	Yield-adjusted post-consumer HDPE mixed bales spread to HDPE feedstock FD NWE	Post-consumer HDPE mixed bales FD NWE (*1.25)	APCHA04	Ethylene FD NWE (*1.05)	HPAJE04	Northwest Europe	Weekly
ARPTF00	R-HDPE Natural Pellets spread to Virgin HDPE FD NWE	Recycled HDPE Natural Pellets FD NWE	ARHNP04	Virgin HDPE B/mldg FD NWE	AALUF00	Northwest Europe	Weekly
ARPTG00	R-LDPE Translucent Pellets spread to Virgin LDPE FD NWE	Recycled LDPE Translucent Pellets FD NWE	ARTPA04	Virgin LDPE G-P FD NWE	AAQNQ00	Northwest Europe	Weekly

### Recycled and virgin polymer spot price spreads

Platts publishes weekly calculated spreads relating to its European recycled plastic and virgin polymer price assessments capturing the spread between virgin polymers and their respective recycled grade as well as spreads within recycled plastic value chains. The automated calculations update each Wednesday upon market close and are based on Platts existing spot price assessments.

Platts yield-adjusted post-consumer HDPE mixed bales spread

to HDPE feedstock FD NWE assumes 1.25 mt of post-consumer HDPE mixed bales are required to produce 1 mt of R-HDPE pellets and that 1.05 mt of ethylene is required to produce 1 mt of virgin HDPE. The spread reflects the difference in price between Platts post-consumer HDPE mixed bales FD NWE assessment multiplied by 1.25 and Platts ethylene FD NWE spot price multiplied by 1.05.

Platts also publishes similar spread calculations in Asia and North America. Their description can be found in the following guides:

[https://www.spglobal.com/platts/PlattsContent/\\_assets/\\_files/en/our-methodology/methodology-specifications/asia\\_pacific\\_petrochemicals.pdf](https://www.spglobal.com/platts/PlattsContent/_assets/_files/en/our-methodology/methodology-specifications/asia_pacific_petrochemicals.pdf) and

[https://www.spglobal.com/platts/PlattsContent/\\_assets/\\_files/en/our-methodology/methodology-specifications/americas-petrochemicals.pdf](https://www.spglobal.com/platts/PlattsContent/_assets/_files/en/our-methodology/methodology-specifications/americas-petrochemicals.pdf)

**Intermediates**

Assessment	Currency	Code	Mavg	Wavg	Type	Basis	Location	Delivery Period	Min Size	Max Size	Uom	Page	Mavg	Wavg
<b>Oxo Alcohols</b>														
N-Butanol FD NWE Weekly	EUR	HPAPG00	HPAPH03		Spot	FD	NWE	3-30 days forward	20		MT	PC0160		
N-Butanol FOB Rotterdam Weekly	USD	PHAPE00	PHAPF03		Spot	FOB	Rotterdam	3-30 days forward	500	1000	MT	PC0160		
Isobutanol FD NWE Weekly	EUR	HPAPK00	HPAPL03		Spot	FD	NWE	3-30 days forward	20		MT	PC0160		
Isobutanol FOB Rotterdam Weekly	USD	PHAPI00	PHAPJ03		Spot	FOB	Rotterdam	3-30 days forward	500	1000	MT	PC0160		
2-EH FD NWE Weekly	EUR	HPAPO00	HPAPP03		Spot	FD	NWE	3-30 days forward	20		MT	PC0160		
2-EH FOB Rotterdam Weekly	USD	PHAPM00	PHAPN03		Spot	FOB	Rotterdam	3-30 days forward	500	1000	MT	PC0160		
PA FL FD NWE Weekly	EUR	HPAPW00	HPAPX03		Spot	FD	NWE	3-30 days forward	20		MT	PC0160		
PA FL FOB Rotterdam Weekly	USD	PHAPU00	PHAPV03		Spot	FOB	Rotterdam	3-30 days forward	500	1000	MT	PC0160		
PA MN FD NWE Weekly	EUR	HPAPY00	HPAPZ03		Spot	FD	NWE	3-30 days forward	20		MT	PC0160		
<b>Ethylene Dichloride (EDC)</b>														
EDC FOB NWE Weekly	USD	PHAQK00	PHAQL03		Spot	FOB	NWE	3-30 days forward	500	1000	MT	PC0181		
<b>Vinyl Chloride Monomer (VCM)</b>														
VCM FOB NWE Weekly	USD	PHAQQ00	PHAQP03		Spot	FOB	NWE	3-30 days forward	500	1000	MT	PC0181		
<b>Acetic Acid (AA)</b>														
Acetic Acid FD NWE Weekly	EUR	HPAQC00	HPAQD03		Spot	FD	NWE	3-30 days forward	20		MT	PC0172		
<b>Vinyl Acetate Monomer (VAM)</b>														
VAM FD NWE Weekly	EUR	HPAQG00	HPAQH03		Spot	FD	NWE	3-30 days forward	20		MT	PC0172		
<b>PTA</b>														
PTA FD NWE Monthly CP	EUR	AACVW00	AACVX00		Contract	FD	NWE	Current month	300	2000	MT	PC509		
<b>Acrylonitrile (ACN)</b>														
Acrylonitrile CIF ARA Weekly	USD	PHASO04	PHASO03		Spot	CIF	ARA	3-30 days forward	500		MT	PC0175	PC459	

## Intermediates

### Oxo Alcohols

**Assessment Window:** Spot assessments are based on the latest information from the market up to the close of the assessment window at 4:30 pm London time Thursday. Phthalic anhydride (PA) Molten FD NWE is assessed at PA Flake FD NWE plus a fixed premium of Eur250/mt.

**Timing:** Assessments reflect product for delivery or loading 3-30 days forward from the date of publication.

**Basis and Location:** Spot prices are assessed each Thursday on a FD basis in Eur/mt and on a FOB Rotterdam basis in \$/mt.

**Standard cargo size:** Minimum 20 mt for FD NW Europe, between 500 mt and 1,000 mt for FOB Rotterdam assessments.

#### Product Specifications:

- **N-butanol:** Minimum purity of 99.5%. Maximum water content of 0.05%. Maximum color of 10 Hazen.
- **Iso-butanol:** Minimum purity of 99.5% and maximum water content of 0.05%. Maximum color of 10 Hazen.
- **2-EH:** Minimum purity of 99.5%. Maximum water content of 0.1% and maximum acidity of 0.01%.
- **Phthalic anhydride:** Molten and flake product with minimum purity of 99.7%. Residual maleic anhydride content maximum 0.05%. Maximum color of 20 Hazen.

### Ethylene Dichloride (EDC)/Vinyl Chloride Monomer (VCM)

**Assessment Window:** Spot assessments are based on the latest

information from the market up to the close of the assessment window at 4:30 pm London time Tuesday.

**Timing:** Product loading 3-30 days forward from the date of publication.

**Basis and Locations:** FOB Northwest Europe in \$/mt.

**Standard cargo size:** 500-1,000mt.

#### Product Specifications:

**Ethylene dichloride:** Minimum purity of 99.8%. Maximum water content of 200ppm. Maximum acidity is 10ppm.

**Vinyl chloride monomer:** Minimum purity of 99.9% and maximum water content 100ppm.

### Acetic Acid (AA)/Vinyl Acetate Monomer (VAM)

**Assessment Window:** Spot assessments are based on the latest information from the market up to the close of the assessment window at 4:30 pm on Thursday.

**Timing:** Assessments reflect product for delivery 3-30 days forward from the date of publication.

**Basis and Locations:** Spot prices are assessed FD NWE in Eur/mt.

**Standard cargo size:** Minimum 20mt.

#### Product Specifications:

- **Acetic acid:** Minimum purity of 99.8%, maximum water content of 0.15% by weight, and maximum color of 10 Hazen.
- **Vinyl acetate monomer:** Minimum purity of 99.9%, maximum

water content of 400ppm.

### Purified Terephthalic Acid (PTA)

**Calculation:** The PTA FD NWE monthly contract price is calculated at 0.66 multiplied by the paraxylene industry-settled monthly European contract price plus a fixed premium of Eur140/mt.

**Timing:** The fixed calculation incorporates the latest available published monthly settlement for the paraxylene industry-settled European contract price.

**Basis and Location:** FD NWE in Eur/mt.

**Standard cargo size:** 300-2,000mt.

**Product Specifications:** Minimum purity of 95%.

### Acrylonitrile (ACN)

**Assessment Window:** Spot assessments are based on the latest information from the market up to the close of the assessment window at 4:30 pm London time on Tuesday.

**Timing:** Material for delivery 3-30 days forward from the date of publication.

**Basis and Location:** CIF ARA in \$/mt.

**Standard cargo size:** Minimum 500mt.

**Product Specifications:** Minimum purity of 99.4%, maximum water content of 0.5%, and maximum non-volatile bases content of 100ppm.

**Solvents**

Assessment	Currency	Code	Mavg	Wavg	Cur Conv	Type	Basis	Location	Delivery Period	Min Size	Max Size	Uom	Page	Mavg	Wavg
<b>Hydrocarbon Solvents</b>															
Solvent Naphtha FD NWE Weekly	EUR	HPAGN00	HPAZI03			Spot	FD	NWE	3-30 days forward	20		MT	PC370	PC0446	
Solvent Naphtha FOB Rotterdam Weekly	USD	PHAGO00	PHAZH03			Spot	FOB	Rotterdam	3-30 days forward	500	1000	MT	PC370	PC0446	
Solvent Toluene FD NWE Weekly	EUR	HPAFN00	HPAZK03			Spot	FD	NWE	3-30 days forward	20		MT	PC370	PC0446	
Solvent Xylene FD NWE Weekly	EUR	HPAGC00	HPAZP03			Spot	FD	NWE	3-30 days forward	20		MT	PC370	PC0446	
White Spirit FD NWE Weekly	EUR	HPACS00	HPAZT03			Spot	FD	NWE	3-30 days forward	20		MT	PC370	PC0446	
White Spirit FOB Rotterdam Weekly	USD	PHACT00	PHAZS03			Spot	FOB	Rotterdam	3-30 days forward	500	1000	MT	PC370	PC0446	
Hexane Special Grade FD NWE Weekly	EUR	HPACX00	HPAZV03			Spot	FD	NWE	3-30 days forward	20		MT	PC370	PC0446	
Hexane Special Grade FOB Rotterdam Weekly	USD	PHACZ00	PHAZU03			Spot	FOB	Rotterdam	3-30 days forward	500	1000	MT	PC370	PC0446	
<b>Oxygenated Solvents</b>															
Acetone T2 FD NWE Weekly	EUR	HPADN00	HPAYQ03			Spot	FD	NWE	3-30 days forward	20		MT	PC378	PC0447	
Acetone T2 FOB Rotterdam Weekly	USD	PHADO00	PHAYP03			Spot	FOB	Rotterdam	3-30 days forward	500		MT	PC378	PC0447	
Butyl Acetate FD NWE Weekly	EUR	HPAEJ00	HPAZE03			Spot	FD	NWE	3-30 days forward	20		MT	PC378	PC0447	
Butyl Acetate FOB Rotterdam Weekly	USD	PHAEK00	PHAZD03			Spot	FOB	Rotterdam	3-30 days forward	500		MT	PC378	PC0447	
Ethyl Acetate FD NWE Weekly	EUR	HPAED00	HPAZA03			Spot	FD	NWE	3-30 days forward	20		MT	PC378	PC0447	
Ethyl Acetate FOB Rotterdam Weekly	USD	PHAE00	PHAZB03			Spot	FOB	Rotterdam	3-30 days forward	500		MT	PC378	PC0447	
IPA FD NWE Weekly	EUR	HPADE00	HPAYF03			Spot	FD	NWE	3-30 days forward	20		MT	PC378	PC0447	
IPA FOB Rotterdam Weekly	USD	PHADF00	PHAYE03			Spot	FOB	Rotterdam	3-30 days forward	500		MT	PC378	PC0447	
MEK FD NWE Weekly	EUR	HPADR00	HPAYS03			Spot	FD	NWE	3-30 days forward	20		MT	PC378	PC0447	
MEK FOB Rotterdam Weekly	USD	PHADS00	PHAYR03			Spot	FOB	Rotterdam	3-30 days forward	500		MT	PC378	PC0447	
Phenol FD NWE Weekly	EUR	HPAGF00	HPAYJ03			Spot	FD	NWE	3-30 days forward	20		MT	PC378	PC0447	
Phenol FOB Rotterdam Weekly	USD	PHAGG00	PHAYI03			Spot	FOB	Rotterdam	3-30 days forward	500		MT	PC378	PC0447	

## Solvents

### Hydrocarbon Solvents

**Assessment Window:** Spot assessments are based on the latest information from the market up to the close of the assessment window at 4:30 pm London time Tuesday.

**Timing:** Assessments reflect material for delivery or loading 3-30 days from the date of publication. In the absence of spot indications the FOB barge market is assessed as a spread to related upstream products.

**Basis and Location:** Spot prices are assessed in Eur/mt FD NWE and in \$/mt FOB Rotterdam.

**Standard cargo size:** Minimum 20 mt for FD NWE, 500-1,000 mt for FOB Rotterdam.

#### Product Specifications:

- **Solvent Naphtha:** Minimum density of 0.870 g/ml at 15 degrees Celsius, minimum total aromatics content is 99% and maximum water content is 0.03%.
- **Solvent Toluene:** Product must conform to ASTM D-841.

- **Solvent Xylene:** Product must conform to ASTM D-843 with one or more isomers removed.
- **White Spirit:** Minimum density of 0.770 g/ml at 15 degrees Celsius, minimum aromatics content of 15% and a distillation range of 145-200 degrees Celsius.
- **Hexane:** Minimum C6 (hexane, isomers, and methyl-cyclopentane) content of 98%. Product should have a minimum n-hexane content specification of 45%. Maximum benzene content of 50ppm and a maximum sulfur content of 200ppm. Minimum boiling temperature of 65-70 degrees Celsius for food grade, 60-95 degrees for adhesive grades.

### Oxygenated Solvents

**Assessment Window:** Spot assessments are based on the latest information from the market up to the close of the assessment window at 4:30 pm London time Tuesday.

**Timing:** Assessments reflect product for delivery or loading 3-30 days forward from the date of publication.

**Basis and Locations:** Eur/mt FD NWE and \$/mt FOB Rotterdam.

**Standard cargo size:** Minimum 20 mt for FD NWE, minimum 500 mt for FOB Rotterdam.

#### Product Specifications:

- **Isopropyl alcohol (IPA):** Maximum aromatics volume of 100ppm, maximum sulfur content of 1ppm and minimum product purity of 50%. Minimum alcohol content is 99.5%, and maximum water content is 0.3%.
- **Phenol:** Minimum purity of 99.9% and maximum water content of 0.08%.
- **Acetone:** Minimum acetone content of 99% and maximum water content of 0.35%.
- **Methyl Ethyl Ketone (MEK):** Minimum MEK content of 99% and maximum water content of 0.1%.
- **Ethyl acetate (ETAC):** Minimum purity of 99.5%, maximum water content of 0.05%, and maximum alcohol content of 0.04%.
- **Butyl acetate (BUTAC):** Minimum purity of 98%, maximum water content of 0.05%, and maximum alcohol content of 0.5%.

**Chlor Alkali**

Assessment	Currency	Code	Mavg	Wavg	Cur Conv	Type	Basis	Location	Delivery Period	Min Size	Max Size	Uom	Page	Mavg	Wavg
<b>Chlorine</b>															
Chlorine FD NWE Weekly	EUR	AANTE00				Contract	FD	NWE	Current month	500	1000	MT	PC0391		
<b>Caustic Soda</b>															
Caustic Soda FOB NWE Weekly	USD	AANTF00	AANTF03			Spot	FOB	NWE	3-30 days forward	2000		DMT	PC0391	PC0380	
Caustic Soda CFR Med Weekly	USD	AC SMA04	AC SMA03			Spot	CFR	Med	3-30 days forward	2000		DMT	PC0391	PC0380	

**Chlor Alkali****Chlorine**

**Assessment Window:** Contract prices are calculated on the first Tuesday of the month at 4:30pm London time and are published weekly. The fixed calculation takes Platts EDC FOB NWE spot price assessment in \$/mt as assessed on the first Tuesday of the month, converted to euro and multiplied by 0.89 EDC chlorine content, minus Eur40/mt assumed production costs.

**Timing:** Current Month

**Basis and Locations:** FD NWE in Eur/mt.

**Standard cargo size:** Contract material is delivered ex-pipeline in parcels of 500-1,000mt.

**Product Specifications:** Liquid/gas chlorine with a minimum purity of 99.5% by volume, moisture of 50 ppm max by weight.

**Caustic Soda**

**Assessment Window:** Assessments are based on the latest information from the market up to the close of the assessment window at 4:30 pm London time on Tuesday.

**Timing:** Material for loading or delivery 3-30 days forward from the date of publication.

**Basis and Locations:** Spot prices are assessed FOB Northwest Europe, normalized to Rotterdam, and CFR Mediterranean in dollars per dry metric ton (dmt). Indications in liquid metric tons (lmt) are taken into consideration and normalized to dmt on the basis that the caustic soda content of 4,000lmt is equal to that of 2,000dmt, unless otherwise stated.

**Standard cargo size:** Minimum 2,000dmt.

**Product Specifications:** Caustic soda solution 50% commercial grade (membrane or diaphragm).

### Liquid (easy) and gas chemicals freight

Platts assesses freight rates for liquid chemicals and gas chemicals in Europe. Please refer to the Freight methodology and specifications guide for details of these assessments: [https://www.spglobal.com/commodityinsights/PlattsContent/\\_assets/\\_files/en/our-methodology/methodology-specifications/global\\_freight.pdf](https://www.spglobal.com/commodityinsights/PlattsContent/_assets/_files/en/our-methodology/methodology-specifications/global_freight.pdf)

### Platts global chemical indices

**Indices:** Platts publishes the following chemical indices daily, based on the assessments indicated in parentheses. The indices appear in Platts Chemical Alert (PCA) page 900.

- Global Ethylene (CFR NE Asia, FD NWE, FD USG)
- Global Propylene (FOB Korea, FD NWE, FD USG)
- Global Benzene (FOB Korea, CIF ARA, FOB USG)
- Global Toluene (FOB Korea, FOB Rotterdam, FOB USG)
- Global Paraxylene (FOB Korea, FOB Rotterdam, and FOB US Gulf)
- Global Low density polyethylene (CFR N Asia, FD NWE, FAS Houston)
- Global Polypropylene homopolymer (CFR N Asia, FD NWE, FAS Houston)
- Global Petrochemical Index (PGPI) (1)

Weighted averages for each index above by region are as follows:

- Global Ethylene (CFR NE Asia, FD NWE, FD USG), 0.52 Asia,

0.30 for US and 0.18 for Europe.

- Global Propylene (FOB Korea, FD NWE, FD USG), 0.65 Asia, 0.17 for US and 0.18 for Europe.
- Global Benzene (FOB Korea, CIF ARA, FOB USG), 0.63 Asia, 0.18 for US and 0.18 for Europe.
- Global Toluene (FOB Korea, FOB Rotterdam, FOB USG), 0.73 Asia, 0.14 for US and 0.13 for Europe.
- Global Paraxylene (FOB Korea, FOB Rotterdam, and FOB US Gulf), 0.90 Asia, 0.06 for US and 0.05 for Europe.
- Global Low density polyethylene (CFR N Asia, FD NWE, FAS Houston), 0.45 Asia, 0.22 for US and 0.33 for Europe.
- Global Polypropylene homopolymer (CFR N Asia, FD NWE, FAS Houston), 0.71 Asia, 0.13 for US and 0.17 for Europe.

The distribution reflects the relative sizes of the regional markets based on production capacity, as of 2022.

(1) The Platts Global Petrochemical Index (PGPI) is calculated based on the individual global product indices with the following weight distribution: 0.29 ethylene, 0.24 propylene, 0.10 benzene, 0.07 toluene, 0.12 paraxylene, 0.04 LDPE, and 0.14 PP.

**Units:** \$/mt.



## Appendix

### TDI-grade toluene specifications

Platts toluene diisocyanate-grade (TDI-grade) toluene assessments reflect the below specifications, designated under ASTM D-5606:

Property:	Specifications:
Purity, min, wt	99.9%
Acid wash color, max	pass with 2
Benzene, max, mg/kg	300
Non-aromatics, max, wt	0.1%
Ethylbenzene, max, mg/kg	300
Xylenes, max, mg/kg	500
Appearance	Clear liquid free of sediment and haze when observed at 18.3 to 25.6 C (65 to 78 F).
Color, max, Pt-Co scale	10

### MX specifications

Platts European mixed xylenes assessments reflect the below specifications designated under ASTM D-843; with one or more isomers removed:

Property:	Specifications:
Non-aromatics content, max	3%
Ethylbenzene content, max, vol	20%
Color, max, Pt-Co scale	20
Distillation range, max	5 Celsius
Initial distillation temp, min	137 Celsius
Dry point, max	143 Celsius
Acid wash color, max	pass with 6
Copper corrosion, max	pass (1A or 1B)
Appearance	Clear liquid free of sediment and haze when observed at 18.3 to 25.6 C (65 to 78 F).

## Revision history

**May 2023:** Platts completed an annual review of the guide, reviewing all content, adding an explanation of the Platts yield-adjusted post-consumer HDPE mixed bales spread to HDPE feedstock and making minor edits to language throughout. Platts adds Turkish polymer cargo sizes.

**February 2023:** Platts clarified the methodology for publishing industry-settled OX and PX contract prices.

**January 2023:** The specification guide has been renamed to European Chemicals.

**December 2022:** Platts updated weightings for global chemical indices.

**September 2022:** Platts launched LDPE bales daily spot assessments for Northwest Europe on Aug. 1, 2022. Platts clarified the exclusion of additional surcharges including energy surcharges from its polymers contract price assessments on Sept. 12, 2022.

**July 2022:** Platts discontinued CFR Russia assessments for polyethylene and polypropylene. Platts also added M1 and M2 FOB Rotterdam assessments for methanol.

**June 2022:** Platts narrowed the location for FOB NWE SBR spot assessments to reflect all major Northwest European ports, basis Rotterdam, and no longer includes Italy and Spain.

**May 2022:** Platts clarified the OX and PX contract price methodology, and removed duplicate symbols from the methanol assessments table.

**April 2022:** Platts completed an annual review of this guide, reviewing all content, and making minor edits to language throughout.

**February 2022:** Platts revised minimum and maximum cargo

size for FCA and FD MEG and DEG spot assessments and narrowed the location for FCA and CIF MEG and FCA DEG spot assessments to Amsterdam, Rotterdam, Antwerp (ARA), basis Antwerp.

**December 2021:** Platts launched a daily assessment of methanol bunker fuel delivered to Rotterdam in September 2021, additionally introducing calculations that convert the methanol bunker assessment to the energy equivalent content of LNG and fuel oil to enable comparison with other marine fuels.

**October 2021:** Platts added price spread calculations for recycled and virgin polymers.

**July 2021:** In June 2021, Platts introduced daily assessments of R-PP black and natural pellets DDP Northwest Europe and changed the purity specification of its ETBE FOB AR assessment.

**May 2021:** Platts completed an annual update of its European petrochemicals specifications guide, reviewing all content and making minor edits throughout. In this update, Platts added further detail on laycan correspondences for toluene and mixed xylenes spreads to Eurobob gasoline swaps and clarified delivery locations for CFR West Africa polymers.

**April 2021:** In March 2021, Platts revised the minimum and maximum cargo size for FD NWE and FCA Antwerp polyethylene spot assessments, introduced daily assessments of R-LDPE black pellets, grey pellets and translucent pellets DDP Northwest Europe and discontinued its benzene FOB Rotterdam assessment to focus on the more liquid CIF ARA market.

**January 2021:** Platts specified maximum carbon intensity instead of Greenhouse Gas saving equivalent for its ETBE FOB AR assessment.

**December 2020:** Platts introduced a daily assessment of

R-HDPE natural pellets FD Northwest Europe. In November 2020, Platts discontinued its AA and VAM FOB NWE assessments due to low liquidity.

**October 2020:** Platts specified timing for the provision of ETBE sustainability documentation and renamed the assessment description for the ETBE differential to MTBE from ETBE premium to ETBE spread. Platts introduced a dollars per metric ton to dollars per barrel conversion rate for MTBE and ETBE and specified existing nomination periods for MTBE and ETBE to align with the Petrochemicals timing and increment guidelines.

**August 2020:** In July 2020, Platts introduced daily assessments of post-consumer mixed HDPE bales for Northwest Europe and changed the frequency of HDPE FD NWE and HDPE FCA Antwerp spot assessments from weekly to daily.

**May 2020:** Platts introduced daily assessments of R-PET mixed colored flakes and changed the frequency of all R-PET assessments from weekly to daily. Platts completed an annual update of its European petrochemicals specifications guide, reviewing all content and making minor edits throughout. In this update, Platts clarified olefins modes of transport, added detail on IMPCA product specifications applicable to methanol, updated sustainability criteria wording for ETBE and reconciled inconsistencies between text and tables.

**April 2020:** Platts changed the quantity, delivery periods and nomination procedures reflected in its mixed xylene and toluene assessment processes and revised the non-aromatics content in its mixed xylene assessments to maximum 3%. Platts updated the gasoline components section of the guide to reflect the facilitation of the ETBE Market-on-Close assessment process through the eWindow communication tool and added a description of the ETBE spread to MTBE. Platts introduced a caustic soda CFR Med assessment, revised the location and cargo size specifications of its caustic soda FOB assessment, clarified that the unit of measure for caustic soda is dry metric tons and discontinued the caustic soda contract price. Platts

introduced a fixed calculation for the chlorine contract price. In March 2020, Platts introduced a daily assessment of the MTBE spread to the Eurobob gasoline front-month financial derivative. In March 2020, Platts introduced a daily CFR Turkey PP fiber assessment and updated the location column for CFR North Africa and CFR West Africa in the polymer tables. Platts updated inconsistencies in the text where CFR North Africa was referred to as CFR Africa and added missing references to CFR West Africa.

**January 2020:** Platts introduced daily R-HDPE light pellet assessment for Northwest Europe. Platts clarified location for UK PET assessments.

**July 2019:** Platts revised R-PET flake specifications for UK and Northwest Europe assessments.

**June 2019:** Platts introduced a new post-consumer PET bottle bale assessment.

**May 2019:** Platts updated its European polymer methodology to clarify the hierarchy of information used in contract price assessments and to further clarify that its UK polymer assessments are basis FD UK. Platts also updated its Recycled-PET flake methodology to better differentiate hot-wash flake assessments from food grade pellets. Platts also completed an annual update of its European petrochemicals methodology & specifications guide. In this update, Platts reviewed all content and made minor edits throughout.

**May 2019:** Platts discontinued publishing the industry-settled styrene FOB ARA monthly contract price. Platts discontinued the monthly average of its methanol FOB Rotterdam weekly calculation. Platts completed an annual update to sections 1 to 6 of Platts Methodology and Specifications Guides in April 2019, and moved these sections into a standalone Methodology Guide.

**March 2019:** Platts discontinued the ACN CIF MED assessment due to low liquidity.

**February 2019:** Platts introduced new food grade pellet recycled PET assessments.

**December 2018:** Platts clarified Eurobob gasoline codes used for mixed xylene, toluene assessments.

**December 2018:** Platts moved chemicals freight methodology and tables to Freight methodology and specifications guide.

**October 2018:** Platts updated the Aromatics and methanol table to correct the incoterm listed for Methanol T2 FOB Rotterdam quarterly contract.

**August 2018:** Platts updated the Aromatics and methanol table to correct the code listed for Mixed Xylene CIF ARA, the currency for Methanol T2 FOB Weekly Rotterdam and the contract type for Paraxylene FOB ARA Mo02. Platts also updated the Gasoline components table to include the full assessment descriptions for MTBE FOB ARA factor, ETBE FOB AR, ETBE Premium FOB AR, Raffinate-1 CIF NWE Weekly and Raffinate-1 CIF NWE Factor Weekly.

**July 2018:** Standardized the wording around industry-settled contract prices across the olefins, aromatics and methanol sections, and clarified that Platts will not publish a contract price if a full settlement is not reached. References to Platts currency conversions of industry-settled CPs were removed from the text and added to tables as needed.

**May 2018:** Platts updated the section ?@Aromatics MOC window guidelines?A to include revised expectations surrounding vessel performance in its CIF ARA aromatics assessment windows.

**May 2018:** Platts corrected the April 2018 revision history to remove an erroneous reference to PCA Guidelines. The April 2018 update had incorrectly stated that text had been moved to the PCA Guidelines document during the annual methodology review.

**April 2018:** As part of the annual methodology review, we

simplified language and deleted/moved repetitive language on normalization, which is included in Parts I-VI.

**April 2018:** Platts moved publication of EDC/VCM assessments in Europe to Tuesday from Thursday.

**April 2018:** Platts amended the codes listed for its Propylene Contract Price Indicator.

**January 2018:** Platts amended intermediates methodology for PTA and PA. Platts harmonized toluene and mixed xylenes assessments by discontinuing nitration grade toluene and solvent grade MX.

**November 2017:** Platts launched CIF ARA mixed xylene month 1 and month 2 assessments, and toluene and mixed xylene month 1 and month 2 spreads to corresponding Eurobob gasoline FOB ARA swaps.

**September 2017:** Platts launched CIF ARA toluene assessments and tied its existing FOB ARA prices to the CIF ARA value.

**August 2017:** Platts clarifies vessel performance in European CIF ARA aromatics MOC window guidelines.

**July 2017:** Platts to assess CFR Turkey polymer prices exclusive of duty. Platts clarifies FOB specifications for styrene butadiene rubber and revises vinyl content for SSBR.

**June 2017:** Platts updated the codes for Platts cracker margins.

**April 2017:** [Annual Review] Platts launched MX CIF ARA assessment and tied its existing FOB ARA prices to the CIF ARA value. Platts revised the MOC guidelines for CIF markets allowing bids and offers for dated barrels in no shorter than 10 day strips. Platts also revised its approach to aromatics contract price publication in case of split settlements. In addition, Platts added a gas chemical freight methodology to the complement the existing easy liquid freight methodology.

January 2017: Platts to no longer take price deltas into consideration for assessing European polymer contract prices. (See May 2019 update.)

**December 2016:** Platts discontinued several chemical freight assessments, including for freight rate for liquid chemicals from Europe to Brazil and for VCM freight routes from Europe and the US to Turkey.

**November 2016:** Platts discontinued the styrene FCA Rotterdam truck contract price. Platts launched benzene month-ahead contract price indicator.

**June 2016:** Platts launches C2,C3 month gross contract price assessments. Platts also launched M1,M2 spot price assessments for European C2,C3. Platts revised aromatics MOC window guidelines on loading/delivery dates.

**March 2016:** Platts revised the individual regional weighting to each product based on their regional capacity, for the Global Petrochemical Indices.

**February 2016:** [Annual Review] Platts clarified the loading dates for EDC/VCM and minimum/maximum quantity for DEG. Platts clarified that PVC CFR Russia is also assessed in \$/mt. Platts clarified that Raffinate is assessed as CIF NWE. Platts updated hexane specifications to reflect a methodology change regarding benzene and sulphur content.

**February 2016:** Platts clarified the loading dates for EDC/VCM and minimum/maximum quantity for DEG. Platts clarified that PVC CFR Russia is also assessed in \$/mt. Platts clarified that Raffinate is assessed as CIF NWE. Platts updated hexane specifications to reflect a methodology change regarding benzene and sulphur content.

**August 2015:** Platts clarified minimum and maximum volumes for spot polymer assessments. Platts clarified delivery period for contract polymer assessments is the month of publication. Platts clarified it also used butadiene in the contract cracker margin calculations. Platts clarified loading period and standard parcel volumes for MTBE. Platts clarified loading/delivery period for acetic acid, VAM and oxygenated solvents. Platts added basis location for FD and CIF NWE assessments of ethylene and propylene.

**April 2015:** Platts discontinued publication of acetone T1, MIBK and benzene forward quarterly assessments. Platts also discontinued publication of the hydro xylene FOB ARA code (PHAGD00) and replaced it with mixed xylene code (PHAAW00). Platts introduced spot assessments for LLDPE standard C6 (AAQCY00) and metallocene C6 (AAQCZ00).

**March 2015:** Platts clarified European polymer contract price assessments by further defining the parameters. Platts added 'spot' in PET and ABS cargo sizes.

**February 2015:** Platts changed the frequency of the mixed xylenes and orthoxylene assessments to daily.

**January 2015:** Platts discontinued dioctyl phthalate assessments from January 2, 2015 and revised the specifications of the mixed xylenes reflected in the virgin/isomer and solvent grade xylenes. Platts reduced the ethyl-benzene content to a maximum of 20% from previous 55-60%, eliminated the limits on metaxylene, paraxylene and orthoxylene, which were previously set at 15-20%, and reduced the non-aromatics content to 2% from 4% maximum for solvent grade. For isomer/virgin grade Platts increased the non-aromatics content to 2% from previously set 1%.

**November 2014:** Platts amended olefins, aromatics and methanol contract price methodology. Platts publishes contract price settlements once it has obtained information that two buyers and two sellers have agreed the same price.

**August 2014:** Platts revamped all Petrochemical Methodology and Specifications Guides, including its European Petrochemical guide, in August 2014. This revamp was completed to enhance the clarity and usefulness of all guides, and to introduce greater consistency of layout and structure across all published methodology guides. Methodologies for market coverage were not changed through this revamp, unless specifically noted in the methodology guide itself.