

Proposed amendments to Singapore gasoil specifications

FOB Singapore gasoil / diesel specifications			0.001%S	0.005%S	0.05%S	0.25%S	0.5%S	Unit		
			10 ppm	50 ppm	500 ppm	2500 ppm	5000 ppm	Unit		
Acid Number, Total	Max	mg KOH/g	0.3	0.5	0.5	0.5	0.5	mg KOH/g		Max
Appearance @ 25°C	Pass Procedure 1	Visual test	Clear & bright, without undissolved sediment or free water	Clear & bright, without undissolved sediment or free water	Clear & bright, without undissolved sediment or free water			Visual test		Pass Procedure 1
Ash content	Max	% weight	0.01	0.01	0.01	0.01	0.01	% weight		Max
Cetane Index	Min	Range 0-100	46	48	48	48	48	Range 0-100	Min	
Cetane Number	Min	Range 0-100	51	48	48			Range 0-100	Min	
Conradson Carbon Residue (10% distillation)	Max	% mass	0.2	0.2	0.2	0.1	0.1	% mass		Max
CFPP (Cold filter plugging point)	Max	°C	Minus 5					°C		Max
Cloud point	Max	°C	Minus 1	0	8			°C		Max
Colour	Max	Grade	2.0	2.0	2.0	2.0	2.0	Grade		Max
Conductivity @ 20°C	Min	pS/m	150					pS/m	Min	
Copper corrosion (3 hrs @ 50°C)	Max	Class	1	1	1	1	1	Class		Max
Density @ 15°C	Min- Max	g/ml	0.820-0.845	0.82-0.86	0.82-0.86	0.82-0.86	0.82-0.87	g/ml	Min- Max	
Distillation T90 (90% recovered)	Max	°C			357	360	370	°C		Max
Distillation T95 (95% recovered)	Max	°C	360	360	370	360	370	°C		Max
Distillation volume recovered @ 250°C	Max	%	65					%		Max
Distillation volume recovered @ 350°C	Min	%	85					%	Min	
Filter blocking tendency @ 40°C	Max	mm ² /s	2	1.4	1.4			mm ² /s		Max
Flash point	Min	°C	61.5	66	66	66	66	°C	Min	
Kinematic viscosity @ 40°C	Min- Max	cSt	2.0-4.5	2.0-4.5	2.0-4.5	2.0-4.5	1.7-5.5	cSt	Min- Max	
Lubricity (HFRR) (WSD 1,4) @ 60°C	Max	microns	460	460	460	460		microns		Max
Odour			Merchantable							
Oxidation stability	Max	mg/L	25					mg/L		Max
Particulate matter	Max	mg/kg	24					mg/kg		Max
Polyaromatic hydrocarbons (PAHs)	Max	% weight	11	11				% weight		Max
Pour point	Max	°C		9	9	9	9	°C		Max
Sulfur content	Max	ppm	10	50	500	2500	5000	ppm		Max
Water content	Max	mg/kg	200					mg/kg		Max
Water & sediment	Max	% volume	0.05	0.05	0.05	0.05	0.05	% volume		Max

REMOVED
ADDED
CLARIFIED
CHANGED
NO SPECIFICATION
UNCHANGED



Platts made a final revision to this matrix based on industry feedback on February 22, 2010
 Platts revised this matrix on December 18, 2009, and requested feedback by January 31, 2010
 Platts initially invited comments and feedback by November 20, 2009

Proposed amendments to gasoil specifications: in detail

FINAL Subscriber note: Amendments to Asia gasoil specifications

- Platts has concluded a thorough review of its proposals to amend and update quality specifications for its FOB Singapore gasoil/diesel assessments, following an extensive period of industry engagement that began in October 2009. The revised specifications will be made effective April 1, 2010. Following latest feedback, Platts has amended the flash point and water content specifications reflected in its 10ppm gasoil assessment, and the distillation standard reflected in its 0.5% sulfur gasoil assessment. All other specification updates remain as proposed. A full listing of proposed updates to specifications, and a table showing the changes, is available online at <http://www.platts.com/IM.Platts.Content/MethodologyReferences/MethodologySpecs/singgasoil.pdf>, or <http://bit.ly/singgasoil>.
- AMENDMENT: Flash point specification for 10 ppm diesel to be amended from min 64 to 61.5° C, under tests ASTM D93, EN 22719.
- AMENDMENT: Water content specification for 10 ppm diesel to be amended from max 100 mg/kg to 200 mg/kg, under test EN ISO 12937.
- AMENDMENT: Distillation T90 (90% recovered) specification for 0.5% sulfur gasoil to state max 370° C under test ASTM D86. Previously, 0.5% sulfur gasoil did not state the distillation temperature. Distillation T90 specification for 0.25% gasoil to state max 360° C. Previously, 0.25% sulfur gasoil specified distillation T95 at max 360° C. Distillation T95 specification for 500 ppm gasoil to state max 370° C, and distillation T90 specification of max 357° C removed. Distillation T95 specification maintained for 50ppm and 10 ppm diesel assessments at max 360° C.
- OTHER CHANGES AND UPDATES: Total Acid Number specification of max 0.3 mg KOH/g to be added to 10ppm assessments. All other gasoil grades to retain a specification for TAN of max 0.5, in units of mg KOH/g under test ASTM D664.
- Appearance specification for all grades to state "Pass procedure 1 @ 25° C - Clear & bright, without undissolved sediment or free water," under visual test ASTM D4176.
- Conradson Carbon Residue (10% distillation) for 50 ppm sulfur gasoil to be amended from max 0.05 to max 0.2% mass, consistent with specifications for 10ppm diesel and for 500ppm gasoil, using test ASTM D4530.
- Cetane Index of Min 48 for 50 ppm, 500 ppm, 0.25% and 0.5% sulfur gasoils using test ASTM D4737. No specification for Cetane Number, as currently described for 50 ppm and 500 ppm assessments. Specification for 10 ppm sulfur diesel to remain Cetane Index of Min 46.
- Cetane Number of Min 51 for 10 ppm sulfur diesel.
- Copper Corrosion specification for all grades to state Class 1 (3 hrs @ 50° C) under test ASTM D130.
- : Distillation T90 (90% recovered) at Max 370° C will be specified for 0.5% sulfur gasoil. Previously, 0.5% sulfur gasoil did not state the distillation temperature. Distillation T95 (95% recovered) specification 500 ppm and 0.25% gasoils to state Max 370° C under test ASTM D86. Previously, 2500 ppm sulfur gasoil specifications stated Max 360° C. Distillation T95 specification at Max 360° C maintained for 50ppm and 10 ppm diesel assessments.
- HFRR Lubricity specification of Max 460 microns (@ 60° C) added for 0.25% sulfur gasoil assessments, in line with current specification for 10ppm diesel, 50 ppm and 500 ppm gasoil assessments under test ASTM D6079.
- Pour Point to be stated Max 9° C for 50 ppm, 500 ppm, 0.25% and 0.5% sulfur gasoils under test ASTM D97. Previously, no pour point was stated for 0.5% sulfur gasoil, and a pour point of max 6° C was stated for 0.25% sulfur gasoil. No pour point specification for 10 ppm sulfur diesel due to the prevailing cloud point specification of Max Minus 1° C.
- All other aspects of the published specifications shall remain unchanged. FOB Singapore gasoil / diesel assessments are published on Platts Global Alert page 6, and in Platts APAGscan. For comments or queries please contact asia_oilproducts@platts and pricegroup@platts.com.

Platts made a final revision to its updated specifications on February 22, 2010. Final revisions are in blue. Platts invited comments in rounds ending November 2009 and January 2010. Any additional comments or queries should be sent to asia_oilproducts@platts.com and pricegroup@platts.com



Final Singapore gasoil specs after proposed amendments

FOB Singapore gasoil / diesel specifications			0.001%S	0.005%S	0.05%S	0.25%S	0.5%S	Unit	Test Methods	
Acid Number, Total	Max	mg KOH/g	10 ppm	50 ppm	500 ppm	2500 ppm	5000 ppm	mg KOH/g	ASTM D664	
Appearance @ 25°C	Pass Procedure 1	Visual test	Clear & bright, without undissolved sediment or free water	Clear & bright, without undissolved sediment or free water	Clear & bright, without undissolved sediment or free water			Visual test	ASTM D4176 Proc 2	
Ash content	Max	% weight	0.01	0.01	0.01	0.01	0.01	% weight	Max	ASTM D482, EN ISO 6245
Cetane Index	Min	Range 0-100	46	48	48	48	48	Range 0-100	Min	ASTM D4737, EN ISO 4264
Cetane Number	Min	Range 0-100	51					Range 0-100	Min	ASTM D613, EN ISO 5165
Conradson Carbon Residue (10% distillation)	Max	% mass	0.2	0.2	0.2	0.1	0.1	% mass	Max	ASTM D4530, EN ISO 10370
CFPP (Cold filter plugging point)	Max	°C	Minus 5					°C	Max	EN 116 / IP 309
Cloud point	Max	°C	Minus 1					°C	Max	ASTM 2500, ISO 3015-92, JIS K 2269-87, EN 23015
Colour	Max	Grade	2.0	2.0	2.0	2.0	2.0	Grade	Max	ASTM D1500 / IP 196
Conductivity @ 20°C	Min	pS/m	150					pS/m	Min	ASTM D2624, EN ISO 6297:1997
Copper corrosion (3 hrs @ 50°C)	Max	Class	1	1	1	1	1	Class	Max	ASTM D130, EN ISO 2160
Density @ 15°C	Min- Max	g/ml	0.820-0.845	0.82-0.86	0.82-0.86	0.82-0.86	0.82-0.87	g/ml	Min- Max	ASTM D4052, EN ISO 3675
Distillation T90 (90% recovered)	Max	°C				360	370	°C	Max	ASTM D86, EN ISO 3405:1998
Distillation T95 (95% recovered)	Max	°C	360	360	370			°C	Max	ASTM D86, EN ISO 3405:1998
Distillation volume recovered @ 250°C	Max	%	65					%	Max	EN ISO 3405:1998
Distillation volume recovered @ 350°C	Min	%	85					%	Min	EN ISO 3405:1998
Filter blocking tendency @ 40°C	Max	mm ² /s	2					mm ² /s	Max	ASTM D2068, IP 387
Flash point	Min	°C	61.5	66	66	66	66	°C	Min	ASTM D93, EN 22719
Kinematic viscosity @ 40°C	Min- Max	cSt	2.0-4.5	2.0-4.5	2.0-4.5	2.0-4.5	1.7-5.5	cSt	Min- Max	ASTM D445, EN ISO 3104
Lubricity (HFRR) (WSD 1,4) @ 60°C	Max	microns	460	460	460	460		microns	Max	ASTM D6079, IP 450, ISO 12156-1
Odour			Merchantable							
Oxidation stability	Max	mg/L	25					mg/L	Max	ASTM D2274, EN ISO 12205
Particulate matter	Max	mg/kg	24					mg/kg	Max	EN 12662
Polyaromatic hydrocarbons (PAHs)	Max	% weight	11	11				% weight	Max	IP 391:1995
Pour point	Max	°C		9	9	9	9	°C	Max	ASTM D97
Sulfur content	Max	ppm	10	50	500	2500	5000	ppm	Max	ASTM D5453, EN ISO 20846/7 & 20884
Water content	Max	mg/kg	200					mg/kg	Max	EN ISO 12937
Water & sediment	Max	% volume	0.05	0.05	0.05	0.05	0.05	% volume	Max	ASTM D2709



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