

PRODUCT SPECIFICATIONS

Residual Fuel

CHARACTERISTICS	UNITS	LIMITS (1)		TEST METHODS (2)		
		FUEL OIL 1	FUEL OIL 2	EN/ISO/OTHERS (3) STANDARDS	UNE STANDARDS (3)	ASTM STANDARDS (3)
Colour		Black	black	Visual		
Density at 15°C	kg/m ³	report	report	EN ISO 3675	UNE-EN ISO 3675	D 1298
Kinematic viscosity at 50°C	mm ² /s	maximum 220	maximum 380	EN ISO 3104	UNE-EN ISO 3104	D 445
Sulphur content	% m/m	maximum 1,0	maximum 1,0	EN ISO 8754 EN ISO 14596 EN ISO 51215	UNE-EN ISO 8754 UNE-EN ISO 14596 UNE-EN ISO 51215	D 2622 D 4294
Flash point	°C	minimum 65	minimum 65	EN ISO 2719	UNE-EN ISO 2719	D 93
Water and sediments content	% V/V	maximum 1,0	maximum 1,0		UNE 51082	D 1796
Water content	% V/V	maximum 0,5	maximum 0,5	ISO 3733	UNE 51027	D 95
Higher heating value	kcal/kg	minimum 10000	minimum 10000	(4)	UNE 51123	D 240
Lower heating value	kcal/kg	minimum 9500	minimum 9500	(4)	UNE 51123	D 240
Ash content	% m/m	maximum 0,15	maximum 0,15	EN ISO 6245	UNE-EN ISO 6245	D 482
Stability: Total aged sediment (5)	% m/m	maximum 0,15	maximum 0,15	ISO 10307-2		
Vanadium	mg/kg	maximum 300	maximum 300	ISO 14597 IP 470 IP 501	UNE-EN ISO 14597	D 5863 D 5708
Complementary information (6):						
Upper pour point	°C	maximum +30	maximum +30	ISO 3016		D 97

EDITION: 3

DATE: 01/08/2015

NOTES:

- (1) All test methods referred to in this document include a precision statement. In case of dispute, the procedures for resolving the dispute and interpretation of the results based on the test method precision described in EN ISO 4259 standard shall be used.
- (2) Other technically equivalent test methods are acceptable under prior approval by EXOLUM. In case of dispute, the criteria about reference methods and the interpretation of results established in the RD 61/2006 shall be followed.
- (3) The test methods to be applied are those corresponding to the last published version.
- (4) The method of calculation is described in the corresponding Annex of current version of ISO 8217 standard.
- (5) Both ageing procedures described in ISO 10307-2 can be used.
- (6) Information of interest for logistics purposes; a maximum of +30°C is established as a guidance reference for fluidity.

IF THERE IS A CHANGE IN THE OFFICIAL SPECIFICATIONS IN FORCE IN SPAIN, THIS TABLE WILL BE REVISED TO SUIT THE NEW SITUATION.