St1 Norge AS

PRODUCT SPECIFICATION for St1 MSD 500/St1 FSD 500/WRD

St1 MSD 500/St1 FSD 500/WRD is, except for the viscosity, prepared to meet the requirements for marine fuel MDF (DMB) in ISO 8217:2012.

				Note	Test Methods
Appearance			C & B	1,2,3	ASTM D4176
Colour		max	4,0		SS-ISO 2049
Density at 15°C	kg/m^3	min max	850 900		SS-EN ISO 3675 / SS-EN ISO 12185
Cloud Point	°C	max	+30		SS-EN 23015, D2500
Cetane Index		min	35		SS-EN ISO 4264
Pour point	°C	max	0		SS-ISO 3016
Lubricity	um	max	520	2	SS-EN ISO 12156-1
Viscosity at 40 °C	cSt	min max	10,0 20,0		SS-ISO 3104
Distilled at 350 °C	% Vol	max	85,0		SS-EN ISO 3405:2000
Acid Number	mgKOH/g	max	0,5		ASTM D664
Total sediment	% mass	max	0,10	1	SS-EN ISO 3735, D 473
Flash Point	°C	min	62		SS-EN ISO 2719
Oxidation Stability	g/m^3	max	25	3	SS-EN ISO 12205
Sulfur content	% mass	max	0,05		SS-EN ISO 8754/ SS-EN ISO 20846
Water content	% vol	max	0,3	1	SS-EN ISO 12937
Carbon residue - Micro method	% mass	max	0,3		SS-EN ISO 10370
Ash	% mass	max	0,01		SS-EN ISO 6245
Vanadium	mg/kg	max	100		IP 501
Aluminium+Silicon	mg/kg	max	25		IP 501
Hydrogen sulfide	mg/kg	max	2		IP 507

1) If the sample is not clear and bright, the total sediment by hot filtration and water tests shall be required.
2) If the sample is not clear and bright, the test cannot be undertaken and hence the lubricity limit shall not apply.
3) If the sample is not clear and bright, the test cannot be undertaken and hence the oxidation stability limit shall not apply.

Effective : 23rd June 2016
Cancels: 6th June 2016