Quadrise

Comparison: Marine residual fuel*, MSAR® and bioMSAR™

CHARACTERISTIC	LIMIT	Marine Residual Fuel	MSAR®	bioMSAR
		Specification	Specification	Specification
Density at 15°C, kg/m³	*max.*	1010.0	1050.0	1200.0
Kinematic viscosity at 50°C, mm²	*max.*	700	180.0	180.0
Flash Point °C	*min.*	60.0	60.0	60.0
Pour point (Upper): Winter/Summer °C	*max.*	30.0	N/A	N/A
Carbon Residue, % (m/m)	*max.*	20.0	18.0	18.0
Ash, % (m/m)	*max.*	0.15	0.1	0.1
Water, % (m/m)	*max.*	0.50	33.0	12.0
Sulfur, % (m/m)	*max.*	Compliance	Compliance	Compliance
Acid number, mg KOH / g	*max.*	2.5	2.5	2.5
Hydrogen Sulfide, mg/kg	*max.*	2.0	2.0	2.0
Vanadium, mg/kg	*max.*	450	350	350
Sodium, mg/kg	*max.*	100	100	100
Total Sediment Potential, % (m/m)	*max.*	0.10	N/A	N/A
Aluminium plus Silicon, mg/kg	*max.*	60	15	15
Glycerine, % (w/w)	*max.*	Example for 40%wt in bioMSAR™		42.0

* ISO 8217:2017 (RMK 700)