ISO BUNKER FUEL LIMITATION

VLSFO | MGO | HSFO | LSMGO 0.1 | ULSFO

ISO 8217:2017 • TECHNICAL REFERENCE • SPC LIMITS

FUEL QUALITY PARAMETERS & LIMITS					
PARAMETER	**VLSFO (ISO 8217:2017)**	**MGO 0.1 (ISO 8217:2017)**	**HSFO (ISO 8217:2017)**	**LSMGO 0.1 (ISO 8217:2017)**	**ULSFO (ISO 8217:2020)**
Density at 15°C (kg/m^3)	900 – 1,020	820 – 890	950 – 1,020	870 – 900	980 – 1,020
Viscosity at 50°C (cSt)	100 – 380	2.0 – 6.0	180 – 380	10 – 30	180 – 380
Flash Point (°C min)	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60
Pour Point (°C max)	≤ 0	≤ -6	≤ 15	≤ -6	≤ 15
Sulphur Content (% m/m max)	≤ 0.50	≤ 0.10	≤ 3.50	≤ 0.10	≤ 0.50
Ash Content (% m/m max)	≤ 0.10	≤ 0.01	≤ 0.15	≤ 0.01	≤ 0.10
Water Content (% v/v max)	≤ 0.50	≤ 0.10	≤ 0.50	≤ 0.10	≤ 0.50
Sediment (% m/m max)	≤ 0.10	≤ 0.01	≤ 0.10	≤ 0.01	≤ 0.10
Total Acid Number (mg KOH/g max)	≤ 2.0	≤ 0.5	≤ 2.0	≤ 0.5	≤ 2.0
Carbon Residue (Ramsbottom, % m/m max)	≤ 18.0	≤ 0.30	≤ 22.0	≤ 0.30	≤ 18.0
Vanadium (mg/kg max)	≤ 250	≤ 10	≤ 500	≤ 10	≤ 250
Aluminium + Silicon (mg/kg max)	≤ 80	≤ 10	≤ 100	≤ 10	≤ 80
Flash Point (closed cup, °C min)	≥ 60	≥ 60	≥ 60	≥ 60	≥ 60
FAME (% m/m max)	≤ 7.0	≤ 7.0	≤ 7.0	≤ 7.0	≤ 7.0

SPC (STANDARD PURITY CRITERIA) LIMITS	
CRITERION	**LIMIT / REQUIREMENT**
Appearance	Clear & free from visible sediment, water and suspended solids
Water & Sediment	≤ 0.50% (V/V)
Total Sediment	≤ 0.10% (M/M)
Asphaltenes (for HSFO & ULSFO)	≤ 0.50% (M/M)
Insolubles	≤ 0.10% (M/M)
Metals (Fe + Na + V + Al + Si)	≤ 60 mg/kg
Flash Point (minimum)	As per applicable ISO specification

Important: This artwork uses the specification values supplied for the requested Pearl Energy reference sheet. For commercial delivery, certification or compliance decisions, the applicable ISO 8217 edition, fuel grade, contractual specification, statutory sulphur limit and laboratory test method shall prevail.

PEARL ENERGY | QUALITY FUELS | RELIABLE SUPPLY | CLEANER OCEANS

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