

LNG QUALITY SPECIFICATIONS

Value	Unit	Specification	Notes
Wobbe Index	KWh/Nm ³	13.10-16.37	
Gross Calorific Value (GCV)	KWh/Nm ³	11.16-12.68	The Operator may consider the possibility of accepting a cargo with GCV in the range 11.04KWh/Nm ³ to 11.16KWh/Nm ³ or 12.68 KWh/Nm ³ to 13.02 KWh/Nm ³ , if after unloading this cargo and mixing with the stored LNG in terminal tanks, the GCV of the resulting LNG will be within the mentioned range.
LNG Density	Kg/m ³	430 - 478	The Operator may consider the possibility of accepting a cargo in the range 420.3 Kg/m ³ to 430 Kg/m ³ or 478 Kg/m ³ to 483.1 Kg/m ³ , if after unloading this cargo and mixing with the stored LNG in terminal tanks, the Density of the resulting LNG will be within the mentioned range.
Molecular Weight	Kg/Kmol	16.52 – 18.88	
Methane	% mol	85.0 min 97.0 max	The Operator may consider the possibility of accepting a cargo with Methane concentration in the range 80 to 85 [% mole] or 97 to 99.8 [% mole], if after unloading this cargo and mixing with the stored LNG in terminal tanks, the value of Methane concentration of the resulting LNG will be within the mentioned range.
i-Butane & n- Butane	% mol	4 max	
i- Pentane & n-Pentane	% mol	2 max	
Nitrogen	% mole	1.24 max	
Hydrogen sulfide (H ₂ S)	mg/Nm ³	5.0 max	
Total sulphur	mg/Nm ³	30.0 max	
Temperature	°C	-158 max	The average temperature of LNG in all tanks of LNG vessel before discharging should not be greater than -158°C. For LNG temperatures higher than -158°C the method KMK, for the calculation of LNG density, is not valid.

*Normal Cubic Meter or Nm³ shall mean the quantity of Natural Gas, which at conditions of absolute pressure 1.01325 bar and temperature zero (0) degree Celsius, occupies volume of one (1) cubic meter.