

LNG QUALITY SPECIFICATIONS

This document is based on the *Terminal Usage Procedures and Principles (UPP) of ETKİ LİMAN İŞLETMELERİ DOĞALGAZ İTHALAT VE TİCARET A.Ş.* (hereinafter referred to as ETKİ).

Within the scope of *UPP*, the LNG to be received by ETKİ shall have below specifications:

1. Gross calorific value at 15 ° C and 1.01325 bar; shall be at least nine thousand two hundred and ten (9210) Kcal / STDm³ and not more than ten thousand one hundred and fifty one (10151) Kcal / STDm³.
2. Component elements (in molar percentages) ranging in the following limits:

	MINIMUM	MAXIMUM
Nitrogen	0,01%	0,20%
Methane	87%	96,6%
Ethane	3,2%	10%
Propane	-	2,5%
i-Butane	-	0,6%
n-Butane	-	0,8%
i-Pentane	-	0,25%
n-Pentane	-	0,01%

3. Contain at most 5,1 mg / m³ hydrogen sulphur.
4. Contain at most 30.9 mg / m³ total sulfur.
5. Wobbe Index will not be less than 51 MJ / m³ or more than 54 MJ / m³.
6. Hydrocarbon dew point should not be greater than -5 ° C in the pressure range of 1-80 bar (g).
7. Should not contain water, carbon dioxide and mercury.
8. Should not contain neither sulfate-reducing bacteria or acid-producing bacteria nor active bacterial or bacterial agents.
9. No dangerous or poisonous substances.

ETKİ has the right not to accept LNG that does not comply with the standards set out above.