



आईआर ई एल (इंडिया) लिमिटेड, चवरा
IREL (India) Limited, Chavara
 (पूर्व में इंडियन रेयर अर्थ लिमिटेड /Formerly Indian Rare Earths Limited)
 भारत सरकार का उपक्रम /A GOVT. OF INDIA UNDERTAKING

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

**ILMENITE 'Q' GRADE
 Specification Sheet**

Chemical Analysis

1) Guaranteed

TiO₂ : 58.00% Min.

2) Typical

TiO₂	60.1%
Fe₂O₃	26.3%
FeO	10.5%
Al₂O₃	0.70%
MnO	0.40%
Cr₂O₃	0.13%
V₂O₅	0.15%
MgO	0.40%
P₂O₅	0.14%
ZrO₂	0.20%
SiO₂	0.75%
Rare Earths	Trace

U 10ppm
 Th 160ppm

3) Sieve Analysis

Sieve Analysis	
sieve opening in microns	Weight percentage retained (%)
425	Nil
300	0.80 - 2.00
212	3.50 - 6.50
150	50.00 - 65.00
106	90.00 - 96.50
75	98.50 - 99.50
-75	0.50 - 1.00

Specific gravity: 4.45 - 4.54

Bulk Density: 2600 - 2630Kg/m³

Note:

1. The chemical analysis of this natural product Ilmenite is expected to vary.
2. Variation in the size of grains occurs from time to time. Although not guaranteed, the grain size distribution can be expected to be within the above ranges.



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IREL (India) Limited, Chavara
गुणता नियंत्रण विभाग / Quality Control Department

ILMENITE 'Q' GRADE

Mineralogical Analysis
1) Typical

PARAMETER	%
ILMENITE	97.60
GARNET	0.50
RUTILE	0.40
LEUCOXENE	0.80
MONAZITE	0.10
ZIRCON	0.10
SILLIMANITE	0.10
KYANITE	0.02
QUARTS	0.37
SHELL	0.00
OTHER MINERALS	0.01

2) Sieve Analysis

Typical

SIEVE ANALYSIS	
Sieve opening in microns	Weight percentage retained (%)
250	10.00-22.00
212	10.50 - 33.50
180	38.50 - 50.50
150	65.00 - 91.00
106	90.00 - 98.50
75	98.50 - 99.50
-75	0.50 - 1.00

[Signature]
09.02.26
HoD(QC)