



HIGH GRADE ILMENITE

GENERAL SPECIFICATION

STANDARD CHEMICAL ANALYSES, PHYSICAL DATA, SIZE DISTRIBUTION

TiO₂ Typical 56 – 62 %

Fe₂O₃ Typical 13 – 21%

FeO Typical 2-6%

Al₂O₃ Typical 1.0 - 2.0

CaO Typical 0.015 - 0.045

Cr₂O₃ Typical 0.,2 – 0,4

MgO Typical 0.7 - 1.8

MnO Typical 0.7 - 1.2

Nb₂O₅ Typical 0.08 - 0.17

P₂O₅ Typical 0.07 - 0.20

S Typical 0.02 - 0.06

SiO₂ Typical 1.0 - 2.0

Th + U (ppm) Typical <250

V₂O₅ Typical 0.2 - 0.3

ZrO₂ Typical 0.2 - 0.5

Moisture Typical 0.0 - 0.5

TiO₂ on a “dry” basis, all other analyses “as received” **Typical AFS No: 81 – 93**

Melting point:	~1365°C
Specific Gravity:	4120 - 4170 kg/m ³
Bulk density:	2130 - 2240 kg/m ³
Grain size:	63 -160 mkm
Flammable:	Nonflammable
Solubility in Water:	Insoluble
Angle of friction:	32
Hardness:	5

Sieve Aperture (microns)	Cumulative retained, %
212	Traces
150	10
106	64
75	99
-75	100

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(Data from mineralogy and chemistry text books denoted with *)

ISSUE No 2\12017