

Ilmenite

GENERAL SPECIFICATION

CHEMICAL ANALYSES

TiO₂	Typical	57 - 60
Fe₂O₃	Typical	32 - 36
Al₂O₃	Typical	0.8 - 1.5
CaO	Typical	0.02 - 0.25
Cr₂O₃	Typical	0.22 - 0.30
MgO	Typical	1.0 - 1.30
MnO	Typical	0.25 - 0.35
Nb₂O₅	Typical	0.04 - 0.07
P₂O₅	Typical	0.04 - 0.15
S	Typical	0.04 - 0.15
SiO₂	Typical	0.5 - 1.5
Th (ppm)	Typical	60 - 220
U (ppm)	Typical	10 - 20
V₂O₅	Typical	0.3 - 0.4
ZrO₂	Typical	0.05 - 0.20
Moisture	Typical	0.2 - 0.4

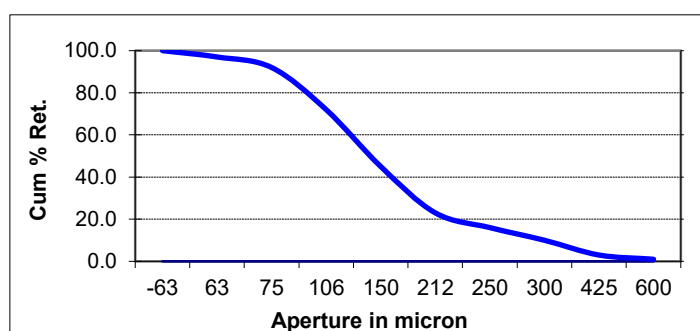
TiO₂ on a “dry” basis, all other analyses “as received”



SIZE DISTRIBUTION

Sieves from British Standard BS410:1986 and American Standard ASTM E-11-81			
Mesh No	Sieve Aperture (µm)	% Retained	
		Typical	Range
30	600	1	0 - 2
40	425	2	1 - 3
50	300	7	3 - 8
60	250	6	4 - 7
70	212	7	6 - 9
100	150	22	20 - 25
140	106	27	25 - 31
200	75	20	19 - 25
230	63	5	5 - 8
-230	-63	3	2 - 5

Typical D50: 120 - 145 µm



TYPICAL PHYSICAL PROPERTIES

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

Specific gravity*	4.3 - 4.7
Bulk density (kg/m ³)	2300 - 2500
Angle of repose (°)	30

OTHER

INFORMATION

Please contact your representative
for the Material Safety Data Sheet

Ilmenite is produced at Sierra Rutile Limited's operations in Sierra Leone.

Ilmenite is a natural product and as such slight variations in the chemical analysis and size distribution should be expected.

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