

Industrial Grade Rutile (IGR)

GENERAL SPECIFICATION

CHEMICAL ANALYSES

TiO₂	Guaranteed	95.0	min
	Typical	95.2	- 95.8
Fe₂O₃	Guaranteed	1.10	max
	Typical	0.6	- 1.1
P	Guaranteed	0.03	max
	Typical	0.01	- 0.03
S	Guaranteed	0.03	max
	Typical	0.01	0.03
Al₂O₃	Typical	0.10	- 0.30
CaO	Typical	0.01	- 0.02
Cr₂O₃	Typical	0.20	- 0.25
MgO	Typical	0.01	- 0.04
MnO	Typical	0.01	- 0.02
Nb₂O₅	Typical	0.10	- 0.20
SiO₂	Typical	0.6	- 1.2
Th (ppm)	Typical	25	- 60
U (ppm)	Typical	12	- 25
V₂O₅	Typical	0.60	- 0.70
ZrO₂	Typical	0.7	- 1.4
Moisture	Typical	0.02	- 0.04

TiO₂ on a "dry" basis, all other analyses "as received"

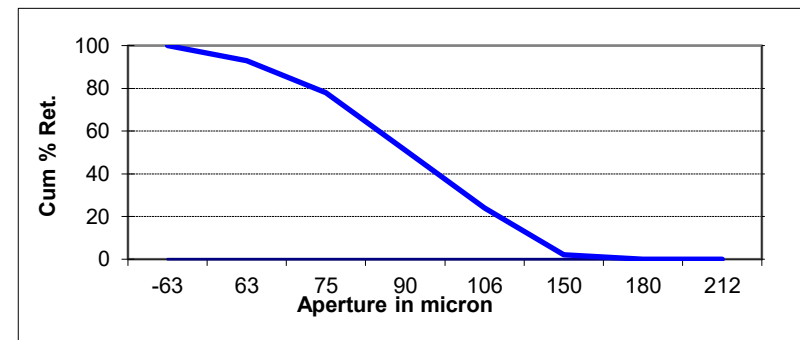


Sierra Rutile

SIZE DISTRIBUTION

Sieves from British Standard BS410:1986 and American Standard ASTM E-11-81			
Mesh No	Sieve Aperture (µm)	% Retained	
		Typical	Range
70	212	0	0 - 2
80	180	0	0 - 2
100	150	2	1 - 5
140	106	22	15 - 30
170	90	27	25 - 37
200	75	27	22 - 30
230	63	15	12 - 18
-230	-63	7	5 - 10

Typical D50: 85 - 95 µm



TYPICAL PHYSICAL PROPERTIES

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

Specific gravity*	4.2 - 4.3
Bulk density (kg/m ³)	2200 - 2400
Angle of repose (°)	30

OTHER

INFORMATION

Please contact your representative for the Material Safety Data Sheets.

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

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

This specification supersedes any former publication and is subject to change without notice. The technical advice contained herein is based on tests believed to be reliable and is offered as a helpful suggestion, it being expressly understood that all such advice being given and accepted at buyer's risk. This information is not a licence to operate under, nor intended to suggest infringement of any existing patents.

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