Industrial Grade Rutile (IGR)

GENERAL SPECIFICATION

Sierra Rutile

CHEMICAL ANALYSES

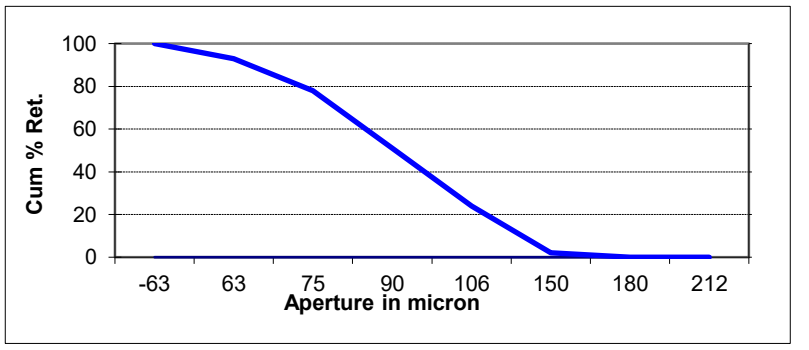
TiO_2	Guaranteed	95.0	min
	Typical	95.2 - 95.8	
Fe_2O_3	Guaranteed	1.10	max
	Typical	0.6 - 1.1	
P	Guaranteed	0.03	max
	Typical	0.01 - 0.03	
S	Guaranteed	0.03	max
	Typical	0.01	0.03
Al_2O_3	Typical	0.10 - 0.30	
CaO	Typical	0.01 - 0.02	
Cr_2O_3	Typical	0.20 - 0.25	
MgO	Typical	0.01 - 0.04	
MnO	Typical	0.01 - 0.02	
Nb_2O_5	Typical	0.10 - 0.20	
SiO_2	Typical	0.6 - 1.2	
Th (ppm)	Typical	25 - 60	
U (ppm)	Typical	12 - 25	
V_2O_5	Typical	0.60 - 0.70	
ZrO_2	Typical	0.7 - 1.4	
Moisture	Typical	0.02 - 0.04	

TiO_2 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	% Retained 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.

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