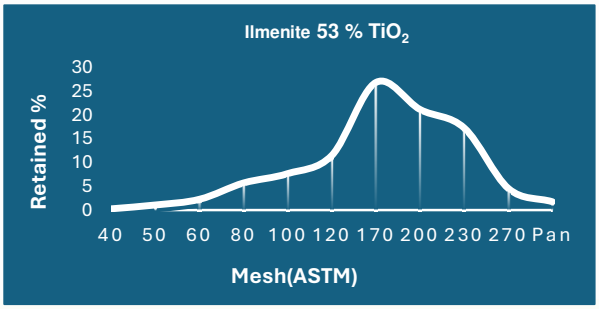
ARIMA MINERALS

ILMENITE 53% TiO_2

Particle Size Analysis*1			
Mesh	MM	Guaranteed (%)	Retained (%)
40	0.425	< 1	0.27
50	0.300	0 ~ 3	1.04
60	0.250	0 ~ 5	2.26
80	0.180	2 ~ 10	5.70
100	0.150	3 ~ 12	7.65
120	0.125	5 ~ 20	11.53
170	0.090	15 ~ 35	26.90
200	0.075	10 ~ 35	21.15
230	0.063	10 ~ 30	17.26
270	0.053	2 ~ 10	4.50
Pan		< 5	1.74



Mineralogical Report*4		
Minerals	Guaranteed (%)	Typical (%)
Ilmenite	98.00 Min	98.50
Garnet	1.50 Max	0.89
Others	0.75 Max	0.61

Chemical Content*2		
Elements	Guaranteed %	Typical (%)
TiO_2	53.00 Min	53.82
Fe_2O_3	18.00 Max	13.49
FeO*	27.00 Min	28.42
SiO_2	1.20 Max	1.065
Al_2O_3	1.20 Max	0.955
V_2O_5	0.50 Max	0.454
P_2O_5	0.05 Max	0.037
Cr_2O_3	0.25 Max	0.126
MgO	0.50 Max	0.322
MnO	0.60 Max	0.435
CaO	0.080 Max	0.065
Nb_2O_5	0.05 Max	0.038
U(ppm)	30 Max	14
Th (ppm)	75 Max	46

Physical Parameters		
Parameters	Guaranteed	Typical
LOI @ 1000°C*5	0.50 % Max	0.18 %
H_2O @ 110°C*6	0.50 % Max	0.14 %
Radioactivity	500 Bq/kg max	359 Bq/kg
Specific gravity	4.5 ~ 5.0	4.6
Bulk Density	2.4 to 3.0 t/m^3	2.70 t/m^3
Colour	Brown/Black	Black
Structure	Trigonal	Trigonal
Hardness	6 to 6.5 mohs scale	6.5 mohs scale

1. Particle Size determined by the method of ASTM C136

2. Chemical assay tested by X Ray Florescence Spectrometry (Epsilon 1 / Axios Max). Instrument calibrated with standard samples and tested by Bureau Veritas.

3. * Element FeO determined by volumetrically

4. Mineral purity determined by Grain counting.

5. Loss on ignition (LOI @1000°C) determined gravimetrically.

6. Moisture content (H_2O) determined by the method of ASTMC566/ISO11127-5.

7. This material is naturally occurring and some variations in grain size and/or chemical analyses can be expected. Other guarantees for specific elements are subject to discussion for individual contracts.

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