

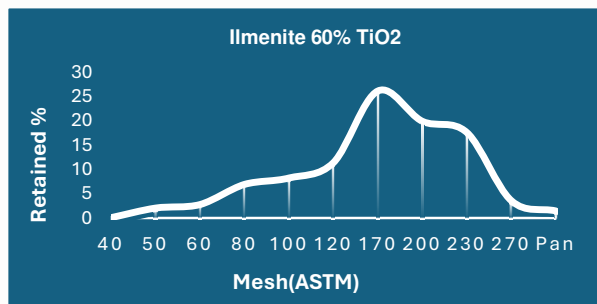


ARIMA MINERALS

ILMENITE 60% TiO₂



Particle Size Analysis* ¹			
Mesh	MM	Guaranteed (%)	Retained (%)
40	0.425	< 1	0.06
50	0.300	0 ~ 3	2.02
60	0.250	0 ~ 5	2.80
80	0.180	2 ~ 10	6.88
100	0.150	3 ~ 12	8.22
120	0.125	5 ~ 20	11.40
170	0.090	15 ~ 35	26.12
200	0.075	10 ~ 35	19.90
230	0.063	10 ~ 30	17.58
270	0.053	2 ~ 10	3.58
Pan		< 5	1.44



Mineralogical Report* ⁴		
Minerals	Guaranteed (%)	Typical (%)
Ilmenite	97.00 Min	97.86
Garnet	2.00 Max	1.26
Others	1.00 Max	0.88

Chemical Content* ²		
Elements	Guaranteed %	Typical (%)
TiO ₂	60.00 Min	62.08
Fe ₂ O ₃	28.00 Max	24.49
FeO*	7.00 Min	8.420
SiO ₂	1.20 Max	1.098
Al ₂ O ₃	1.40 Max	1.185
V ₂ O ₅	0.60 Max	0.566
P ₂ O ₅	0.10 Max	0.062
Cr ₂ O ₃	0.25 Max	0.215
MgO	0.60 Max	0.439
MnO	0.60 Max	0.435
CaO	0.20 Max	0.111
Nb ₂ O ₅	0.10 Max	0.066
U(ppm)	30 Max	11
Th (ppm)	75 Max	58

Physical Parameters		
Parameters	Guaranteed	Typical
LOI @ 1000°C* ⁵	0.50 % Max	0.19 %
H ₂ O @ 110°C* ⁶	0.50 % Max	0.15 %
Radioactivity	500 Bq/kg max	371 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 (H₂O) determined by the method of ASTM C566/ISO 11127-5.

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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