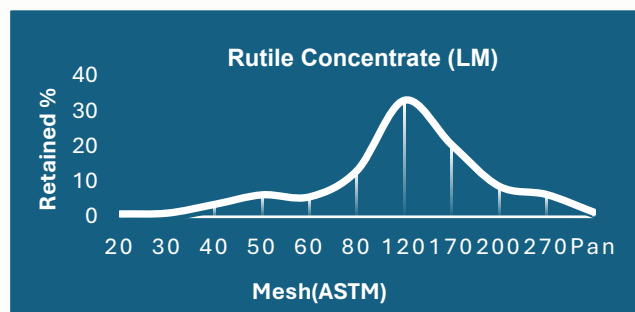


RUTILE CONCENTRATE (LM)



Particle Size Analysis* ¹			
Micron	Mesh	Guaranteed (%)	Retained (%)
850	20	< 1	0.65
600	30	0 ~ 2	0.88
425	40	2 ~ 10	3.44
300	50	2 ~ 12	5.23
250	60	2 ~ 12	6.42
180	80	5 ~ 25	12.84
125	120	20 ~ 40	30.22
90	170	15 ~ 35	22.71
75	200	5 ~ 20	9.76
53	270	0 ~ 10	6.42
Pan		< 5	1.43



Heavy Mineral Report* ⁷		
Minerals	Guaranteed (%)	Typical (%)
Heavy Minerals	60.00 Min	65.71
Quartz	37.00 Max	33.21
Shell /Slime	3.00 Max	1.08

Chemical Content* ²		
Elements	Guaranteed %	Typical (%)
TiO ₂ (Total)	45.00 Min	48.69
TiO ₂ (By Rutile)	38.00 Min	39.84
TiO ₂ (By Ilmenite)	12.00 Max	8.850
ZrO ₂ +HfO ₂	8.00 Max	5.063
Fe ₂ O ₃	10.00 Max	8.165
SiO ₂	40.00 Max	35.75
Al ₂ O ₃	2.00 Max	1.462
V ₂ O ₅	0.800 Max	0.403
P*	0.035 Max	0.029
P ₂ O ₅	0.080 Max	0.065
S*	0.020 Max	0.013
SO ₃	0.050 Max	0.033
Nb ₂ O ₅	0.100 Max	0.058
U(ppm)	75 Max	40
Th (ppm)	150 Max	130

Mineralogical Report* ⁵		
Parameters	Guaranteed (%)	Typical (%)
Rutile	38.00 Min	39.84
Ilmenite	20.00 Max	17.44
Zircon	10.00 Max	7.55
Quartz	37.00 Max	32.15
Others	6.00 Max	3.02

Physical Parameters		
Parameters	Guaranteed	Typical
H ₂ O @110°C* ⁶	5.00 % Max	3.50 %
Radioactivity	1500 Bq/Kg	1022 Bq/kg
Specific gravity	3.5 to 4.0	3.73
Bulk Density	1.70 to 2.2 t/m ³	1.98t/m ³

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 Phosphors (P) calculated from the Compound P₂O₅ by its molecular mass
4. * Element Sulphur (S) calculated from the compound SO₃ by its molecular mass.

5. Mineral content determined by Grain counting.
6. Moisture content (H₂O) determined by the method of ASTM C566/ISO 11127-5
7. Heavy Minerals determined by heavy liquid separation.
8. 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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