

CERTIFICATE OF ANALYSIS

Product Details

PRODUCT:	PACKAGING:	DATE OF ISSUE
AG 20/40 Mesh	25KG Bag, 1 MT Bulk Bag, 2 MT Bulk Bag	10 th May 2024

Typical Chemical Analysis

ELEMENT	PRESENTING AS	CONC. %
Silica*	SiO ₂	38%
Iron	Fe ₂ O ₃	35%
Alumina	Al ₂ O ₃	21%
Magnesium	MgO	6%
Calcium	CaO	2%
Manganese	MnO	1%
Titanium	TiO ₂	1%

* Silica that is bound within the lattice of the garnet crystal and not free crystalline silica.

Typical Physical Characteristics

Property	Value
Specific Gravity	4.4
Bulk Density	2.4 t/m ³
Hardness	7 - 8 mohs
Melting Point	1,250°C / 2250°F
Particle Shape	Sub Angular
Fracture	Sub Conchoidal
Moisture Absorption	Nil
Magnetic Susceptibility	600 gauss
Radioactive	Non-Radioactive

Typical Mineral Composition

ELEMENT	PRESENTING AS	CONC. %
Garnet (Almandine)	Fe ₃ Al ₂ (SiO ₄) ₃	≥ 97%
Ilmenite	FeTiO ₃	≤ 1%
Zircon	ZrSiO ₄	< 0.1%
Crystalline Silica (free)	SiO ₂	< 0.5%
Other		< 2%

Typical Chloride & Conductivity

PROPERTY	TYPICAL VALUE
CHLORIDE*:	8 - 15 ppm
CONDUCTIVITY^:	7 - 12 ms/m

* Based on using ISO Standard 11127-7 test method, with a maximum chloride content less than 25 ppm.

^ Based on using ISO Standard 11127-6 test method, with a maximum conductivity of less than 25 mS/m.

Marcus Brown

Marcus Brown

Registered Manager