



V.V. MINERAL

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ILMENITE TECHNICAL DATA SHEET

Version : V 3.5

Revision Date: 01.01.2015

1) Physical Properties :-

Specific Weight	4.79
Average bulk density	4.55 gm/cm ³
Hardness	5 ~ 6 (mohs scale)

2) Others Characteristics:-

Crystal System	Trigonal - Rhombohedral
Habit	Crystalline, Sometimes Platy, Also Massive
Fracture	Conchoidal
Chemical Formula	Fe TiO ₃
Colour	Iron black, black
Lusture	Submetallic
Diaphancity	Opaque
Magnetism	Feebly Magnetic
Conductivity	25 mS/m
Radioactivity	Not detectable above background
Pathological effects	None
Free silica content	Less than 0.5 %

3) Mineralogical Composition:-

Ilmenite	Min 98.00 %
Garnet (Almandine)	Max 01.50 %
Others	Max 00.50 %

* Garnet being a natural product, its analysis is expected to vary periodically and between deposits



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ILMENITE TECHNICAL DATA SHEET

Version : V 3.4

Revision Date: 01.01.2014

4) Chemical Composition:-

Alumina (as Al ₂ O ₃)	0.20 ~ 1.50 %
Iron (as Fe ₂ O ₃)	10 ~ 27 %
Iron (as FeO)	15 ~ 37 %
Silica (as SiO ₂)	0.30 ~ 2.30 %
Magnesium (as MgO)	0.20 ~ 0.99 %
Calcium (as CaO)	0.04 ~ 0.110 %
Titanium as (TiO ₂)	46 ~ 57 %
Phosphorus as (P ₂ O ₅)	0.012 ~ 0.050 %
Lead (as Pb)	10 ~ 120 ppm
Manganese (as MnO)	0.37 ~ 0.99 %
Zircon (as ZrO ₂)	0 ~ 0.006
Chloride Content	10 ~ 400 ppm
Soluble salts	Less than 500 ppm
Ph of aqueous medium	6.93
Gypsum content	Nil
Moisture content	Less than 0.50 %
Carbonate Content	Traces
Loss on ignition	Nil
Metal content (Specifically free iron, free copper and other heavy metals)	Traces

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