

Technical Data Sheet

Product Name: VARAN-VETAA™

General Description: Varan-Vetaa™ is a specially modified Sodium bentonite clay which has very high Wet tensile strength. The compactability of 45 % provided with minimum humidity. This product is highly recommended for steel / alloy castings where temperature of molten metal is higher than normal.

Product Features:

- Excellent WTS ensures almost zero scab defects.
- Higher thermal resistance gives optimum bonding strength from "shake-out" sand.
- Lower consumption of bentonite on continuous usage.

Technical Specification: -

Free Swelling	30 - 35 ml
Methylene Blue Adsorption Value	400 mg/g min
Green Compressive Strength	9.5 - 12 N/cm ²
Green Compressive Strength (Calcined)	6.5 - 8.0 N/cm ²
Wet Tensile Strength	0.30 - 0.35 N/cm ²
Wet Tensile Strength (Calcined)	0.19 - 0.24 N/cm ²
Liquid Limit	460% min
Compactibility	45% min
Moisture	10 -12%
Residue on 100 mesh	2% max

Chemical Composition (Analysis):-

Silica as (SiO ₂)	44% - 55%
Alumina as (Al ₂ O ₃)	15% - 20%
Iron as (Fe ₂ O ₃)	4% - 10%
Calcium as (CaO)	2% - 5%
Magnesium as (MgO)	0.5% - 1%
Sodium as (Na ₂ O)	0.5% - 3%
Potassium as (K ₂ O)	0.03% - 0.3%

Partical Size Analysis: -

100 Mesh Passing through	98%-99%
200 Mesh Passing through	82%-85%
300 Mesh Passing through	75%-78%

Note: -

The chemical composition of the Bentonite to be determined on indicative basis since the chemistry varies from one mining site to other. The technical specifications as specified above will however have na variation.

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