

Technical Data Sheet

Product Name: VARAN PLUS™

General Description: Varan-Plus™ is a special modified bentonite treated from carefully selected high Quality natural clay. It has exceptionally high montmorillonite content and is suitable product for high technology foundries. Greater plasticity index and better liquid limit values which helps to make moulding easier and more precise.

Technical Specification: -

Free Swelling	26 – 30 ml
Methylene Blue Adsorption Value	410 mg/g min
Green Compressive Strength	8 - 9.5 N/cm ²
Green Compressive Strength (Calcined)	6 - 7.5 N/cm ²
Wet Tensile Strength	0.21 - 0.23 N/cm ²
Wet Tensile Strength (Calcined)	0.14 – 0.16 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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