

Technical Data Sheet

Product Name: VARAN™

General Description: VARAN™ is an activated Sodium Bentonite used in foundry using green sand moulding process.

Product Features:

- Greater module strength.
- High Compatibility.
- Quick assimilation of water resulting in short preparation time.
- Better shake out properties.
- Can be stored for a very long period under dry condition.

Technical Specification: -

Free Swelling Volume	(24 – 28) ml
Methylene Blue Adsorption Value	(390 – 400) mg/g
Green Compressive Strength (GCS)	(8.5 – 11) N/Cm ²
Green Compressive Strength (Calcined)	(6.5 – 8.0) N/Cm ²
Wet Tensile Strength (WTS)	(0.23 - 0.3) N/Cm ²
Wet Tensile Strength (Calcined)	(0.15 – 0.21) N/Cm ²
Moisture	(10-12)%
Residue on 100 mesh	2% max.
pH	9-11

Chemical Composition (Analysis):-

Silica as(SiO ₂)	45 – 55%
Alumina as(Al ₂ O ₃)	17 – 21%
Iron as(Fe ₂ O ₃)	4 – 12%
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 %

Practical 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 no variation.

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