

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)	0.25 - 0.30 N/Cm ²
Wet Tensile Strength (Calcined)	0.15 – 0.21 N/Cm ²
Compactibility	45% min
Moisture	10-12%
Residue on 100 mesh	2% max.
pH	9 - 11

Remarks: - GCS &WTS results based on 5% bentonite content on new sand.

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.

Amrfeo Pte Ltd 32A, Chittaranjan Avenue, 3rd Floor Calcutta : 700 012 India
Phone: +91 33 2212 0923 / 2212 0668 Fax: +91 33 2212 2040 / 2212 0679
E-mail: amrfeo@amrfeo.com, amrfeo@vsnl.com Website: www.amrfeo.com

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