

A sodium bentonite with high bonding properties when mixed with sand, and good swelling, gelling properties. It has a very good cationic exchange capacity. All bentonite is mined in the Heidelberg (WC) area.

TYPICAL PROPERTIES

Colour (Crude)	Grey - Fawn
Appearance	Powder
Moisture (%)	8 - 12
Specific gravity (g/cm ³)	2,51 g/cm ³
Bulk Density (g/cm ³)	1,1 g/cm ³
Particle size distribution	< 15% retained on 150 µm
Grit	4,11% retained on 53 µm
pH (5% in water)	9 - 11
Swelling index (ml/2g)	≥23
Water Absorption (on sinter plate)	≥500
Cation Exchange Capacity (meq/100g)	78,6
Viscosity marsh funnel	Immediate: 24 seconds 10 minutes: 28 seconds

CHEMICAL ANALYSIS (%)

SiO ₂	62,2
Al ₂ O ₃	18,6
Fe ₂ O ₃	3,5
TiO ₂	0,2
CaO	0,8
MgO	3,7
K ₂ O	0,7
Na ₂ O	2,4
L.O.I	7,9

MINERALOGY (APPROXIMATE)

% Montmorillonite	94%
% Quartz	5,5%
% Mica	0,5%

FOUNDRY PROPERTIES:

Compactability (%)	50-70
Green Compressive Strength (kPa)	≥ 45
Green Compressive Strength (kPa)	≥ 200
Shatter Index (%)	≥ 35
Moisture Sand Mix (%)	1.8-2.1

Notice: the characteristics listed are indicative only and shall be understood as example. IMERYS does not warrant the accuracy, fitness for purpose or update of any information disclosed herein. The purchaser is solely responsible for the verification of the suitability of indicated products for his specific purposes and needs. Any warranties of any kind on the suitability and fitness of the products are excluded.

Additional information

HEALTH AND SAFETY

Eccabond is a milled alumino silicate product which generates dust when handled in dry conditions. **Eccabond** is low in dust likely to yield respirable silica levels. A dust mask is recommended for use when handling this product in bulk volumes. The material is a natural dessicant. Handling with gloves or the use of a barrier cream will prevent drying of the skin. The product is very slippery when wet and special care must be taken during handling in wet conditions.

Storage and Shelf life

PACKAGING

Eccabond N is available in the following packaging:

- 25 kg multiply bags, 40 bags per 1,0 metric ton pallet.
- 1mt Bulk bags.

STORAGE

Bentonite is hygroscopic and absorbs moisture. Store in a cool dry place. Do not leave bags in use open; i.e. fold in tight preventing ingress of moisture. Shelf life is 10 years.

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