



# ECCABOND N

## SODIUM BENTONITE

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.

CHEMICAL ANALYSIS (%)	TYPICAL
SiO <sub>2</sub>	62,2
Al <sub>2</sub> O <sub>3</sub>	18,6
Fe <sub>2</sub> O <sub>3</sub>	3,5
TiO <sub>2</sub>	0,2
CaO	0,8
MgO	3,7
K <sub>2</sub> O	0,7
Na <sub>2</sub> O	2,4
L.O.I.	7,9

MINERALOGY (APPROXIMATE)	
% Montmorillonite	94
% Quartz	5,5
% Mica	0,5

PHYSICAL PROPERTIES	
Colour (Crude)	Grey - Fawn
Appearance	Powder
Moisture (%)	8 - 12
Specific gravity (g/cm <sup>3</sup> )	2,51
Loose bulk density (g/cm <sup>3</sup> )	1,1
Particle size distribution	< 15% retained on 150 µm
Grit	4,11% retained on 53 µm
pH (30g in 60ml water)	9 - 10
Swelling index (ml/2g)	25
Water absorption (on sinter plate)	663,1%
Cation exchange capacity (meq/100g)	78,6
Viscosity marsh funnel	Immediate: 26 seconds 10 minutes: 28 seconds

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Revision 1 - 2014 July

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### HEALTH AND SAFETY

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Eccabond is a milled aluminosilicate 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 desiccant. 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.

### PACKAGING

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Eccabond N is available in the following packaging:  
- 40 kg multiply bags, 25 bags per 1,0 metric ton pallet.

### STORAGE

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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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