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34 BENTONITE

A finely powdered, odorless hydrous Silicate of Alumina, insoluble in water, swelling to about eight times its weight when water is added. It is also known as Sodium Bentonite. It is often used as a suspending and colloidal agent in the manufacture of soap, polishes, paints, adhesives, and cosmetics. In addition, it is widely used as a filtering agent and in well drilling.

Typical Chemical Analysis

SiO ₂	60.0 – 65.0%
Al ₂ O ₃	18.0 – 21.0%
Fe ₂ O ₃	2.8 – 3.5%
MgO	2.3 – 3.2%
Na ₂ O	2.1 – 2.7%
K ₂ O	0.4 – 0.6%
H ₂ O	7.75
L.O.I.	4.37

Typical Physical Analysis

Color	Light Gray / Tan
Specific Gravity	2.55 ± 0.1
Bulk Density (lbs / ft ³)	63 ± 3
Cation Exchange Capacity (CEC meq 100g)	70 - 90
Free Swell (cc / 2g)	20 ± 4
Moisture (%)	6 - 10
pH	9.1 ± 0.4

Typical Sieve Analysis

<u>Sieve Size</u>	<u>% Retained</u>
#12	0.15
#20	62.50
#30	30.72
#40	6.45
Pan	0.18

Origin USA