

NS6130-12-001561

Quick Facts

MONTMORILLONITE CLAY

Cation exchange modified

Product : Montmorillonite Clay

Cation exchange modified

Stock No : NS6130-12-001561

Purity : >99%

Molecular Formula : MMT-(C16H33) N (CH3)3

Form : Powder Color : Beige-Tan

Purity >99%

Technical Specification

Density	APS
1.7-2.7g/cm³	<80nm

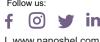
MMT Nano Clay materials also known as a subclass of smectite soft phyllosilicate group of crystalline materials is hydrated Sodium Calcium Aluminum Magnesium Silicate Hydroxide having chemical molecular formula of its repeat unit [(Na,Ca)0.33(Al,Mg)2(Si4O10)(OH)2·nH2O]. MMT Nano Clay is a layered silicate composed of two-dimensional layers that are electrostatically stacked together face to face with a regular van der Waals gap. MMT Nanoclays has number of the exchangeable cations on the clay surface and its CEC ranges between 66 and 123 minmequiv/100 g. Its CEC is due to isomorphous substitution of maganasium (Mg) for Aluminum (AL) in its central Alumina plane. MMT Nano Clay swells with addition of water due to its penetration within the interlayer molecular spaces causing separation of crystallin platelets. The amount of expansion is mainly due to the type of exchangeable cation present in the MMT nano Clays.

Applications:

- Oil drilling industry
- Catalytic processes
- Nonexplosive agents







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