

NS6130-12-001561

Quick Facts

Product	:	Montmorillonite Clay Cation exchange modified
Stock No	:	NS6130-12-001561
Purity	:	>99%
Molecular Formula	:	MMT-(C ₁₆ H ₃₃) N (CH ₃) ₃
Form	:	Powder
Color	:	Beige-Tan

MONTMORILLONITE CLAY

Cation exchange modified

Purity
>99%

Technical Specification

Density	APS
1.7-2.7g/cm ³	<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 $[(Na,Ca)_{0.33}(Al,Mg)_2(Si_4O_{10})(OH)_2 \cdot nH_2O]$. 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

MMT-(C₁₆H₃₃) N (CH₃)₃
APS <80nm



Follow us:



| www.nanoshel.com | sales@nanoshel.com



20ZICE4589C



19ZAZGO1274G



20ZICE4588M

ISO 9001:2015
CERTIFIED COMPANY

INTELLIGENT MATERIALS PVT LTD
Derabassi
Punjab (140507)
INDIA

+91 9779 550077, 9779238252

NANOSHEL UK LIMITED
Chapel House,
Chapel St Cheshire,
CW12 4AB United Kingdom

+44 (0) 74 105 488, +44 203 137 5187

NANOSHEL LLC
3422 Old Capitol Suit
1305 Wilmington DE - 19808
United States

+1 646 470 4911