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# Saponite Clay Nanoparticles

Saponite is a trioctahedral mineral of the smectite group. Its chemical formula is  $\text{Ca}_{0.25}(\text{Mg},\text{Fe})_3((\text{Si},\text{Al})_4\text{O}_{10})(\text{OH})_2 \cdot n(\text{H}_2\text{O})$ . Saponite has unique physical and chemical properties for instance all the smectites that rise scientific interest, high cation exchange capacity, swelling and rheological properties, hydration and dehydration, bonding capacity, high plasticity, and the ability to react with inorganic and organic reagents. Saponite Clay minerals has ancient origin and nowadays natural clays are extensively employed for a large number of applications, including in building, packaging, cosmetics, pharmaceuticals and foundries.

## Technical Specification:

Molecular Weight	Density	Hardness
480.19 g/mol	2.3 g/cm <sup>3</sup>	11/2-2

## Applications:

- ✓ Agriculture
- ✓ Cosmetics Industry
- ✓ Pharmaceutical Industry
- ✓ Used for purification of water

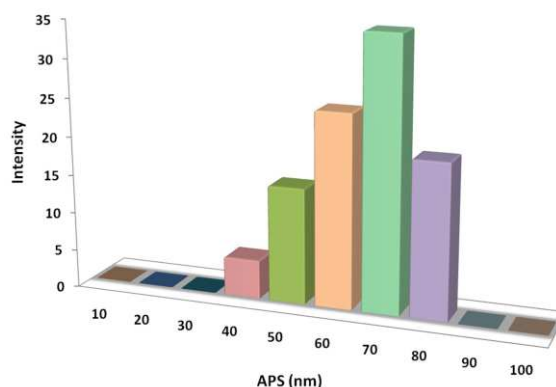
Purity  
**>99.9%**  
 CAS No.  
**1319-41-1**

NS6130-09-921



APS:  
**<80nm**

Saponite Clay Nanoparticles - NS6130-09-921



ISO 9001:2015  
 CERTIFIED COMPANY



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