

## ChangFu® C1632

n-Hexadecyltrimethoxysilane



**Description** ChangFu® C1632 is a silane monomer containing one hydrophobic functional group and three methoxy groups. The hydrophobic group allows this silane to modify the wettability and surface energy of inorganic substrates. Due to its outstanding performance on surface modification and adhesion promotion, it is primarily employed in various applications ranging from coatings, adhesives to nanotechnology.

**Features & Benefits** Long-chain trialkoxy silane with low surface energy.  
Good water scavenger.  
Able to modify the surface properties of inorganic materials.  
Creates superhydrophobic, protective coatings.

**Applications** Used as a powder surface modifier, mainly in the preparation of silica nanoparticles which can form superhydrophobic and protective coatings.  
Used as a surface treatment agent to improve water repellency, corrosion resistance for various materials such as fibers, fabrics, woods, aerogels, and metals.  
Used to modify aluminum oxide and improve the dispersion, compatibility with thermally conductive silicone adhesives.

### Typical Properties

|             |   |
|-------------|---|
| Description | n-Hexadecyltrimethoxysilane                       |
| Product No. | ChangFu® C1632                                    |
| CAS No.     | 16415-12-6  |
| Formula     | C <sub>19</sub> H <sub>42</sub> O <sub>3</sub> Si |
| Purity      | min 96%   |
| Color       | Colorless or light yellow                         |
| Appearance  | Clear liquid or powder                            |

**Package** Offered in 25L PE pails and 200L PVF steel drums.  
Custom packaging is available.

**Storage** Stored in a cool, well-ventilated place.  
Keep container tightly closed.

**Transportation** See the corresponding Safety Data Sheet.