

## TDS - Technical Data Sheet

### Production information

#### Nano-structure of Silica Hydrophobic Grade (ZEO11)

**1.General description:** Hydrophobic silica nanostructure with (ZEO11) is a type of silica that has gained hydrophobic properties by surface modification. Hydrophobic silica prevents direct contact of water with the surface by creating a protective layer on the surface. This protective layer causes water to collect in the form of drops on the surface and is easily separated from it.

**2.Application:** Hydrophobic silica nanostructure (ZEO11) has wide applications in various industries due to its unique properties and improves the properties of materials and increases their useful life. It can be used in paint industry, anti-corrosion materials, polymer and insulation industry, textile, paper and automobile industry.

### 3. Specification

Properties	Units	Value
Specific surface area (BET)	m <sup>2</sup> /g	150-170
pH-value (in 5% dispersion in water)	Wt%	6-7
Particle size agglomerates (D90) (FESEM)	micrometer	<10
Particle size (TEM)	nanometer	15-20
SiO <sub>2</sub> content (based on heated at 1000°C for 2 h)	Wt%	>98
Tamped density	g/L	130-150
Appearance	Ultra fine, White, Amorphous Powder	
Packaging	10 Kg	
Storage time & place	2 years & closed and dry environment	