

TDS - Technical Data Sheet

Production information

Nano-structure of Silica Catalyst Base Grade (ZEO9)

1. General description: The nano-structure of silica (ZEO9) can use as a catalyst base can be used for production of ZSM-5 catalyst. This grade is synthetically produced amorphous silicon dioxide (SiO₂).

2. Application: The nano-structure of silica (ZEO9) can play an important role as an initial material for production of ZSM-5 catalyst in petrochemical industry.

3. Specification

Properties	Units	Value
Specific surface area (BET)	m ² /g	130-160
pH-value (in 5% dispersion in water)	Wt%	6-7
Loss on drying (2h @ 105°C)	Wt%	<10
Particle size agglomerates (D90) (FESEM)	micrometer	<30
Particle size (TEM)	nanometer	15-25
SiO ₂ content (based on heated at 1000°C for 2 h)	Wt%	>98
DBP absorption	g/100g	200-220
Tamped density	g/L	180-200
Appearance	Fine, White, Amorphous Powder	
Packaging	10 Kg- 15 Kg	
Storage time & place	2 years & closed and dry environments	