

TDS - Technical Data Sheet

Production information

Grade: ZEO6

1. General description: The nano-structure of silica grade ZEO6 can be used in great application in oral care products. It can be used in manufacturing of toothpaste, tooth powder and gel, as it helps in removing plaque and stain as well as whitening the teeth. This grade is synthetically produced amorphous silicon dioxide (SiO₂).

2. Application: The nano-structure of silica grade ZEO6 acts as a thickening and cleaning agent and it functions as an abrasive to help to remove plaque and food particles from your teeth when brushing with toothpaste.

3. Specification

Properties	Units	Value
Specific surface area (BET)	m ² /g	50-100
pH-value (in 5% dispersion in water)	Wt%	6-8
Loss on drying (2h @ 105°C)	Wt%	<6
Particle size agglomerates (D90) (FESEM)	micrometer	<10
Particle size (TEM)	nanometer	15-20
SiO ₂ content (based on heated at 1000°C for 2 h)	Wt%	>97
DBP absorption	g/100g	50-80
Tamped density	g/L	200-220
Appearance	Fine, White, Amorphous Powder	
Packaging	10 Kg- 15 Kg	
Storage time & place	2 years & closed and dry environment	