



Acematt TS 100

Silicon dioxide, produced chemically

Catalog Nr. Q155

Definition

* Thermal, untreated matting agent.
* Average agglomerate particle size (median TEM): 4 µm
* The chemical compound silicon dioxide, also known as silica (from the Latin silex), is an oxide of silicon with a chemical formula of SiO₂ and has been known for its hardness since antiquity.[1] Silica is most commonly found in nature as sand or quartz, as well as in the cell walls of diatoms. It is a principal component of most types of glass and substances such as concrete. Silica is the most abundant mineral in the earth's crust.

CAS Number 7631-86-9

Application

ACEMATT® TS 100 features excellent matting efficiency and transparency. Because of the unique manufacturing process, it is particularly suitable for systems which are difficult to matt, for water-borne dispersion coatings and for finish coatings. Use of ACEMATT® TS 100 may provide coatings with outstanding resistance to household chemicals. Thanks to the high purity and the resulting low conductivity ACEMATT® TS 100 is ideal for use in sensitive coating systems. ACEMATT® TS 100 improves flow behavior and the storage stability of powder coatings.

Technical Data

Other names	Silica, quartz
Appearance	white powder
Density	2.2 g/cm ³
Melting point	1650(±75) °C
Boiling point	2230 °C
Solubility in water	0.012 g/100 mL
Molecular shape	linear (gas-phase)
Main hazards	inhalation of fine powders can damage the respiratory tract
Flash point	Non-flammable
Other anions	Silicon sulfide
Other cations	Carbon dioxide, Germanium dioxide, Tin dioxide Lead dioxide
Related silicon oxides:	Silicon monoxide
Related compounds:	Silicic acid, "Silica gel"

Packaging & Handling

10 kgs bag = 22.05 lbs bags

UN Number

Class

Packaging Group

Remarks

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