

WACKER HDK® H20

Fumed Silica

Characteristics

Wacker HDK® H20 fumed silica is a hydrophobic fumed silica formed by a chemical reaction of hydrophilic Wacker HDK with silicone fluid. Hydrophobic fumed silica is produced by flame hydrolysis of volatile silicon compounds. H20 is a pure, x-ray amorphous silicon dioxide (SiO₂).

Application

- Free-flow agent for moisture sensitive substances (e.g. peroxides, pigments, PPC-toners).
- Reinforcing filler and thickening agent for RTV-1 silicone sealants, polysulfides, polyurethanes, and acrylates.
- Anti-settling agent for offset printing inks, paints, and lacquers.

Storage

WACKER HDK® H20 has a shelf life of at least 12 months when stored under normal warehouse conditions in the unopened original container. The 'Best use before end' date of each batch appears on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety information

Detailed safety information is contained in each material data safety sheet, which can be obtained from our sales offices.

Product data

Properties	Characteristics	Test Method
Surface area, m ² /g	170±30	DIN 66 131/132
SiO ₂ content, % (Dried for 2 hrs @ 1000°C)	>99.8	DIN 55 921
Tamped bulk density, g/l	Approx. 40	DIN ISO 787/11
Moisture, %, 2 hrs @ 105°C (Material when leaving the plant site)	<0.6	DIN ISO 787/2
Loss on ignition, %, 2 hrs @ 1000°C (Dried for 2 hrs @ 105°C)	<2.0	DIN 55 921
pH-Value, {4% dispersion in water:methanol (1:1)}	4.0-4.8	DIN ISO 787/9
Sieve residue, 40µm	<0.05	DIN ISO 787/18
HCl content, (Dried for 2 hrs @ 1000°C)	<0.02	N/A
Al ₂ O ₃ content (Dried for 2 hrs @ 1000°C)	<0.05	N/A
Fe ₂ O ₃ content (Dried for 2 hrs @ 1000°C)	<0.005	N/A
TiO ₂ content (Dried for 2 hrs @ 1000°C)	<0.003	N/A
C content (Dried for 2 hrs @ 105°C)	<2.1	N/A

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The management system has been certified according to ANSI/ISO/ASQ Q9001 and ANSI/ISO 14001

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