

WACKER HDK® N 20ST

Fumed Silica

Characteristics

WACKER HDK® N 20ST is a hydrophilic fumed silica produced by flame hydrolysis of volatile silicon compounds. WACKER HDK® N 20ST is pure, x-ray amorphous silicon dioxide (SiO₂).

Application

- Thickener, thixotropic agent and antisetling agent for liquid systems, polyester, coatings, paints, lacquers and varnishes, PVC-plastisols, pharmaceutical and cosmetic products, fluids and lubricants, and tile adhesives
- Reinforcing filler in silicone rubber
- Free-flow agent for powders, pigments and salts

Storage

WACKER HDK® N 20ST has a shelf life of at least 12 months when stored 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.

Additional information

WACKER HDK® N 20ST is available in multi-ply plastic-lined paper bags of 10 kg (22 lb) and 200 lb big bags.

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	200±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)	<1.5	DIN ISO 787/2
Loss on ignition, %, 2 hrs @ 1000°C (dried for 2 hrs @ 105°C)	<1.5	DIN 55 921
pH value (4% dispersion in water)	3.8 – 4.3	DIN ISO 787/9
Sieve residue, %, >40 µm	<0.04	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

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

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