

HDK® T30

PYROGENIC SILICA

Product description

Synthetic, hydrophilic amorphous silica, produced via flame hydrolysis.

Special features

White colloidal powder of high purity.

Application

HDK® T30 is applied as a thickening and thixotropic agent in many organic systems, e.g. in unsaturated polyesters, coatings, printing inks, adhesives and others. HDK® T30 is used as a reinforcing filler in elastomers, mainly silicone-elastomers.

Processing

A good dispersion of HDK® T30 is a must to assure optimum performance.

More detailed information about the application and processing of HDK® T30 is available in our HDK-brochures and on the WACKER web site (<http://www.wacker.com/hdk>).

Storage

The 'Best use before end' date of each batch is shown on the shipping label and the certificate of analysis.

HDK® T30 should be stored in the original packaging in dry storage areas.

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.

Packaging

HDK® T30 is offered in following packaging:

- paper bags on pallet:
10 kg bags
- Big bags:
150 kg (big bags on pallets)

Details about packaging and handling:
(<http://www.wacker.com/hdk>).

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via the WACKER web site (<http://www.wacker.com/hdk>).

During transportation and processing HDK® T30 may cause electrostatic charges.

Like other amorphous silicas HDK® T30 does not show either carcinogenic (IARC classification, Volume 68, 1997) or mutagenic properties.

Product data

Typical general characteristics	Inspection Method	Value
SiO ₂ content (based on the substance heated at 1000 °C for 2 h)	DIN EN ISO 3262-19	> 99,8 %
Loss of weight at 1000 °C / 2h (based on the substance dried at 105 °C for 2 h)	DIN EN ISO 3262-19	< 2 %
Density (SiO ₂)	DIN 51757	approx. 2,2 g/cm ³
Refraction index at 20 °C		1,46
Silanol group density		2 SiOH/nm ²
Physical-chemical properties		
BET surface	DIN ISO 9277/ DIN 66132	270 - 330 m ² /g
pH-Value (in 4 % aqueous dispersion)	DIN EN ISO 787-9	3,8 - 4,3
Tamped density	DIN EN ISO 787-11	approx. 40 g/l
Loss on drying , ex works (2h at 105 °C)	DIN EN ISO 787-2	< 1,5 %
Sieve residue , acc. to Mocker > 40 µm	DIN EN ISO 787-18	< 0,04 %

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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For technical, quality, or product safety questions, please contact:

Wacker Chemie AG
Hanns-Seidel-Platz 4
81737 München, Germany
hdk@wacker.com

www.wacker.com/hdk