

HDK[®] N20Pharma

Pyrogenic Silica - Fumed Silica

Characteristics

Synthetic, hydrophilic amorphous silica, produced via flame hydrolysis

properties to HDK[®] N20. Additional product specifications, defined in pharmacopoeias USP/NF, Pharm. Eur. und JSCI are measured. (produced according to ISO 9001, ISO 14001).

Special characteristics

White colloidal powder of high purity

Processing

A good dispersion of HDK[®] N20Pharma is a must to assure optimum performance.

More detailed information about the application and processing of HDK[®] N20Pharma is available in our HDK-brochures and on the WACKER web site (<http://www.wacker.com/hdk>)

Application

HDK[®] N20Pharma shows identical application

Product data

Typical General Properties	Test procedure	Unit	Value
SiO ₂ -content ¹⁾	DIN EN ISO 3262-19	%	>99.8
loss on ignition ²⁾ at 1000 °C / 2h	DIN EN ISO 3262-19	%	<2
density of SiO ₂		g/l	2200
refractive index			1.46
silanol group density		SiOH/nm ²	2
electric resistivity (density 40 g/l)		[Ω cm]	>10 ¹³

Physical-chemical properties	Test procedure	Unit	Value
BET-surface area	DIN ISO 9277/ DIN 66132	m ² /g	170 - 230
pH, in 4 % aqueous dispersion	DIN EN ISO 787-9		3.8 – 4.3
tamped density	DIN EN ISO 787-11	g/l	ca. 40
loss on drying ³⁾ (2 h at 105°C)	DIN EN ISO 787-2	%	< 1.5
sieve residue, acc. to Mocker > 40 µm	DIN EN ISO 787-18	%	< 0.04
heavy metal content	QSCA023 ⁴⁾	ppm	< 25
loss on ignition	QSCA023 ⁴⁾	%	< 2
silicone dioxide	QSCA023 ⁴⁾	%	99.0 – 100.5
arsenic content (As)	QSCA023 ⁴⁾	ppm	< 5
chloride (Cl) content	QSCA023 ⁴⁾	ppm	< 250
identification acc. to JSCI II	QSCA023 ⁴⁾		positive

1) based on the substance heated at 1000 °C for 2 h

2) based on the substance dried at 105 °C for 2 h

3) ex works

4) internal test procedure, based on USP, Pharm.Eur., JSCI II

Storage

HDK® N20Pharma has a shelf life of at least 36 months when stored in unbroken original packaging in dry storage areas. 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.

Packaging

HDK® N20Pharma is offered in following packaging:

- * paper bags on pallet:
10 kg bags, (160 kg per pallet)

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

Safety information

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® N20Pharma may cause electrostatic charges. Like other amorphous silicas HDK® N20Pharma does not show either carcinogenic (IARC classification, Volume 68, 1997) or mutagenic properties.

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:

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