

# HDK<sup>®</sup> N20 PHARMA



## Pyrogenic Silica

Synthetic, hydrophilic amorphous silica, produced via flame hydrolysis.

## Properties

White colloidal powder of high purity.

## Technical data

### Specification

Property	Condition	Value	Method
BET surface	-	175 - 225 m <sup>2</sup> /g	DIN ISO 9277 DIN 66132
Tamped density	-	approx. 40 g/l	DIN EN ISO 787-11
pH	40 g/l	3.8 - 4.3	DIN EN ISO 787-9
Sieve residue <sup>(1)</sup>	-	< 0.03 %	DIN EN ISO 787-18
Loss on drying	-	< 1.5 %	USP
Content Arsenic (As) <sup>(2)</sup>	-	< 3 ppm	USP/AAS
Content Chloride (Cl)	-	< 250 ppm	Ph. Eur.
Content Silicone dioxide	-	> 99.0 - 100.5 %	USP
loss on ignition	-	< 2.0 %	USP

<sup>1</sup>acc. to Mocker > 40 µm

<sup>2</sup>Validated Method

### General Characteristics

Property	Condition	Value	Method
Density <sup>(1)</sup>	20 °C	approx. 2.2 g/cm <sup>3</sup>	DIN 51757
Loss of weight <sup>(2)</sup>	-	< 2 %	DIN EN ISO 3262-19
Refraction index	-	1.46	-
SiO <sub>2</sub> Content <sup>(3)</sup>	-	> 99.8 %	DIN EN ISO 3262-19
Silanol group density	-	2 SiOH/nm <sup>2</sup>	-

<sup>1</sup>SiO<sub>2</sub>

<sup>2</sup>at 1000 °C / 2h (based on the substance dried at 105 °C for 2 h)

<sup>3</sup> based on the substance heated at 1000 °C for 2 h

These figures are only intended as a guide and should not be used in preparing specifications.

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

## Applications

- Pharma

- Pharma Solutions
- Rheology Control & Free-Flow Agent

## Application details

HDK® N20 PHARMA is intended for use in pharmaceuticals. It improves the flow of powders and is used as glidant for tableting. Furthermore, HDK® N20 PHARMA is a thickener for liquid pharmaceutical products. HDK® N20 PHARMA is tested according to the pharmacopeias EP and USP/NF. (Produced according to ISO 9001, ISO 14001, HACCP and IPEC).

A good mixing and dispersion of HDK® N20 PHARMA is a must to assure optimum performance.

More detailed information about the application and processing of HDK® N20 PHARMA is available in our HDK-brochures and on the WACKER web site

## Packaging and storage

### Packaging

HDK® N20 PHARMA is offered in following packaging:

- pallet with paper bags: 10 kg bags

### Storage

The 'Best use before end' date of each batch is shown on the shipping label and the certificate of analysis. HDK® N20 PHARMA 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. Due to the high surface area HDK® adsorbs volatiles and should be protected from humidity and volatiles. If single bags are taken away from an original pallet, the remaining bags of this pallet must again be protected against humidity and volatiles.

## 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. During transportation and processing HDK® N20 PHARMA may cause electrostatic charges. Like other amorphous silicas HDK® N20 PHARMA does not show either carcinogenic (IARC classification, Volume 68, 1997) or mutagenic properties.

## QR Code HDK® N20 PHARMA



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

**Wacker Chemie AG**, Hanns-Seidel-Platz 4, 81737 Munich, Germany  
info@wacker.com, www.wacker.com

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