HDK® N20 P 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^2/g	DIN ISO 9277 DIN 66132
Tamped density	-	approx. 100 g/l	DIN EN ISO 787-11
pH	40 g/l	3.8 - 4.3	DIN EN ISO 787-9
Sieve residue[1]	-	< 0.03 %	DIN EN ISO 787-18
Loss on drying	-	< 1.5 %	USP
Content Arsenic (As)[2]	-	< 3 ppm	USP/AAS
Content Chloride (Cl)	-	< 250 ppm	Ph. Eur.
Content Silicone dioxide	-	> 99.0 - 100.5 %	USP
LOI Loss on ignition	-	< 2 %	USP

[1]acc. to Mocker > 40 µm
[2]Validated method

General Characteristics

Property	Condition	Value	Method
Content SiO_2 [1]	-	> 99.8 %	DIN EN ISO 3262-19
Density[2]	20 °C	approx. 2.2 g/cm^3	DIN 51757
Loss of weight[3]	-	< 2 %	DIN EN ISO 3262-19
Refraction index	-	1.46	-
Silanol group density	-	2 $SiOH/nm^2$	-

[1]based on the substance heated at 1000 °C for 2 h
[2]SiO_2
[3]at 1000 °C / 2h (based on the substance dried at 105 °C for 2 h)

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

Applications

- Pharma

- Rheology Control & Free-Flow Agent

Application details

HDK® N20 P PHARMA is intended for use in pharmaceuticals.
It improves the flow of powders and is used as glidant for tableting.
HDK® N20 P 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 P PHARMA is a must to assure optimum performance.
More detailed information about the application and processing of HDK® N20 P PHARMAA is available in our HDK-brochures and on the WACKER web site

Packaging and storage

Packaging

HDK® N20 P PHARMA is offered in following packaging:
- pallet with paper bags: 20 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 P 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 P PHARMA may cause electrostatic charges.
Like other amorphous silicas HDK® N20 P PHARMA does not show either carcinogenic (IARC classification, Volume 68, 1997) or mutagenic properties.

QR Code HDK® N20 P 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