HDK® N20 NUTRITION

PYROGENIC SILICA

Product description

Synthetic, hydrophilic amorphous silica, produced via flame hydrolysis.

Special features

White colloidal powder of high purity.

Application

HDK® N20 NUTRITION shows the same product characteristics like HDK® N20, but in addition to the specified parameters of HDK® N20, the specification relevant for uses as Food and Feed Additive under E 551 according to Regulation (EU) 231/2012 are met. (Production according to ISO 9001, ISO 14001 and HACCP).

Processing

If applied as anti caking additive gentle mixing results best effects with sticky products.

More detailed information about the application and processing of HDK® N20 NUTRITION 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® N20 NUTRITION 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.

Packaging

HDK® N20 NUTRITION is offered in following packaging:

- pallet with paper bags:
  10 kg bags

The smallest package size leaving our plant are the pallets, protected against humidity by a heat shrinkable foil.

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® N20 NUTRITION may cause electrostatic charges. Like other amorphous silicas HDK® N20 NUTRITION 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	< 2,5 %
Density at 20 °C of SiO_2	DIN 51757	approx. 2,2 g/cm³
Silanol group density		2 SiOH/nm^2

Physical-chemical properties		
BET surface	DIN ISO 9277 DIN 66132	175 - 225 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 (2 h at 105 °C)	DIN EN ISO 787-2	< 2,5 %
Sieve residue , acc. to Mocker > 40 µm	DIN EN ISO 787-18	< 0,03 %
Silicone dioxide	QSCA023 [1])	99,0 - 100,5 %
Lead content (Pb)	QSCA023 [1])	< 5 ppm
Arsenic content (As)	QSCA023 [1])	< 3 ppm
Mercury content (Hg)	QSCA023 [1])	< 1 ppm

[1]) internal test procedure, based on CR 231/2012

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

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

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