HB-139
Fumed Silica
Technical Data Sheet

Product Introduction
HB-139 is a structure modified hydrophobic fumed silica. HB-139 offers low thickening effect and excellent processability to enable high loading polymers. It has good anti-sag properties and excellent stability in epoxies. It offers excellent reinforcing properties in silicone rubber applications especially at high filler loading levels and no crepe hardening on aging in silicone rubber. It is well suited for transparent systems and also has high water resistance and free-flow aid for polymers.

Chemical/Typical Properties:

SiO_2 Content (%)	99.8
Carbon Content (%)	5.5±0.8
Moisture (2 hours at 105°C) (%)	0.8

Application
HB-139 is utilized in silicone rubber, coatings, inks, adhesives, sealants, greases, cable el, vinyl ester resins and powders.

Packaging
20kg/net fiber drum

Other information (disclaimer)
Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

HB-215
Fumed Silica
Technical Data Sheet

Product Introduction

HB-215 is a hydrophobic fumed silica after treated with DDS (Dimethyldichlorosilane) based on a hydrophilic fumed silica with a specific surface area of 150 m^2/g. it's a kind of high purity white colloidal powder. HB-215 offers thixotropy and reinforcement in RTV silicone sealants, the hydrophobic feature given RTV silicone sealants a long period shelf-life, and it has rheology control in adhesives. It shows improvement of anti-settling, anti-sagging and thixotropy control and improves the free flow of powder coatings and anti-caking.

Chemical/Typical Properties:

Specific Surface Area (BET) (m^3)	115±15
pH-value in 4% dispersion (1:1 mix of water and ethanol)	3.7-4.5
Loss on Drying (2h @ 105°C) (%)	≤0.5
Loss on Ignition (2h @ 1000°C) (%)	≤2.5
Silica Content (%)	≥99.8
Tamped Density (g/L)	40-60
Carbon Content (%)	0.6-1.2

Application

HB-215 is utilized in RTV silicone sealants, especially electronic potting, adhesives, sealants, coatings, inks and powder coatings.

Other information (disclaimer)

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HB-620
Fumed Silica
Technical Data Sheet

Product Introduction
HB-215 is a hydrophobic fumed silica after treated with HMDS (hexamethyldisilizane) based on a hydrophilic fumed silica with a specific surface area of 200 m^2/g. It's a kind of high purity white colloidal powder. It offers reinforcement of HTV silicone rubber and anti-caking. It has high hydrophobicity and stable thixotropy, using in coating and ink can prevent from anti-caking, anti-sagging and anti-thixotropy. It offers good performance of hydrophobic feature and rheology in adhesives and sealants. It gives improvement of the free flow of powder coatings and anti-caking.

Chemical/Typical Properties:

Specific Surface Area (BET) (m^3)	170±20
pH-value in 4% dispersion (1:1 mix of water and ethanol)	5.5-8.0
Loss on Drying (2h @ 105°C) (%)	≤0.5
Loss on Ignition (2h @ 1000°C) (%)	≤4.0
Silica Content (%)	≥99.8
Tamped Density (g/L)	40-60
Carbon Content (%)	1.5-2.5

Application
HB-215 is utilized in HTV silicone rubber and LSR, adhesives, sealants, paint, inks and powder coatings.

Other information (disclaimer)
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HB-630 Fumed Silica
Technical Data Sheet

Characteristics

HB-630 is a hydrophobic fumed silica after treated with HMDS (hexamethyldisilazane) based on a hydrophilic fumed silica with a specific surface area of 300 m^2/g. It's a kind of high purity white colloidal powder.

Applications

*Elastomer, HTV silicone rubber and LSR
*Coatings and Inks system
*Anti-foamer
* Carbon Powder for Printer

Properties

*In HTV and liquid silicone rubber, provides good reinforcement and transparancy
*Hydrophobic surface chemistry and stable thixotropy,anti-settling , anti-sagging
*High surface area, smallparticle size and good decentrality, performanca high

Anti-foam property
*Improve the free flow, homogenity and probility stability of Cabon Powder

Physicochemical Data

Properties	Unit	Typical Value	Standardization
Specific surface area(BET)	m^2/g	230±25	GB/T 10722
pH-value in 4% dispersion (1:1 mixture of water and ethanol)		5.5 ~ 8.0	GB/T 1717
Loss on drying(2h @ 105°C)	wt%	≤ 0.5	GB/T 5211.3
Loss on ignition (2h @ 1ooo°C, based on material dried for 2h@ 105°C)	wt%	≤ 4.0	GB/T 20020
Silica content (based on ignited material)	wt%	≥ 99.8	GB/T 20020
Tamped density (based on material dried for 2h @105°C)	g/L	40 ~ 60	GB/T 5211.4
Carbon content (based on material dried for 2h @ 105°C)	wt%	2.5 ~ 4.0	GB/T 20020

The data presented in this document is based on our best knowledge. We disclaim any warranty and liability whatsoever as to accuracy and completeness of such information as well as to the potential infringement of any proprietary rights. We reserve the right to alter product constants within the scope of technical progress or new developments. Any user of our products shall bear the full risk connected to their use including but not limited to their properties and fitness for any purpose.

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HL-200
Fumed Silica
Technical Data Sheet

Product Introduction
HL-200 is a hydrophilic fumed silica with a specific surface area of 200m^2/g. it's a kind of high purity white colloidal powder. HL-200 is a reinforcing filler in elastomers, is used as anti-settling, thickening and anti-sagging agent. HL-200 has rheology and thixotropy control of liquid systems, binders, polymers, etc. It shows improvement of free-flow and anti-caking characteristics of powders and possesses high transparency

Chemical/Typical Properties:

Specific Surface Area (BET) (m^3)	200±20
pH-value in 4% dispersion (1:1 mix of water and ethanol)	3.7-4.5
Loss on Drying (2h @ 105°C) (%)	≤2.0
Loss on Ignition (2h @ 1000°C) (%)	≤2.0
Sieve Residue (45µm)	≤0.04
Silica Content (%)	≥99.8
Tamped Density (g/L)	40-60
Carbon Content (%)	≤0.15

Application
HL-200 can be applied to paints, coatings, unsaturated polyester resins and films, elastomers, especially HTV and RTV silicone rubber, adhesives, sealants, printing inks, plant protection and finally cosmetics.

Other information (disclaimer)
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HL-300
Fumed Silica
Technical Data Sheet

Product Introduction

HL-300 is a hydrophilic fumed silica with a specific surface area of 300m^2/g. it's a kind of high purity white colloidal powder. HL-300 is a reinforcing filler in elastomers, is used as anti-settling, thickening and anti-sagging agent. HL-300 has rheology and thixotropy control of liquid systems, binders, polymers, etc. It shows improvement of free-flow and anti-caking characteristics of powders and possesses high transparency in unsaturated polyester resins.

Chemical/Typical Properties:

Specific Surface Area (BET) (m^3)	300±25
pH-value in 4% dispersion (1:1 mix of water and ethanol)	3.7-4.5
Loss on Drying (2h @ 105°C) (%)	≤2.5
Loss on Ignition (2h @ 1000°C) (%)	≤2.5
Sieve Residue (45µm)	≤0.04
Silica Content (%)	≥99.8
Tamped Density (g/L)	40-60
Carbon Content (%)	≤0.15

Application

HL-300 can be applied to paints, coatings, silicone rubber and other elastomers, cable compounds and unsaturated polyester resins, adhesives, sealants and printing inks.

Other information (disclaimer)

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HL-380
Fumed Silica
Technical Data Sheet

Product Introduction

HL-380 is a hydrophilic fumed silica with a specific surface area of 380m^2/g. it's a kind of high purity white colloidal powder. HL-380 is a reinforcing filler in elastomers, is used as anti-settling, thickening and anti-sagging agent. HL-380 has rheology and thixotropy control of liquid systems, binders, polymers, etc. It shows improvement of free-flow and anti-caking characteristics of powders and possesses high transparency in unsaturated polyester resins.

Chemical/Typical Properties:

Specific Surface Area (BET) (m^3)	380±30
pH-value in 4% dispersion (1:1 mix of water and ethanol)	3.7-4.5
Loss on Drying (2h @ 105°C) (%)	≤2.5
Loss on Ignition (2h @ 1000°C) (%)	≤2.5
Sieve Residue (45µm)	≤0.04
Silica Content (%)	≥99.8
Tamped Density (g/L)	40-60
Carbon Content (%)	≤0.15

Application

HL-380 can be applied to paints, coatings, silicone rubber and other elastomers, unsaturated polyester resins, adhesives, sealants and printing inks.

Other information (disclaimer)

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