



PRODUCT LIST  
**EKASIL**

# EKASIL 200

Hydrophilic Fumed Silica with a Specific Surface Area of 200 m<sup>2</sup>/g



## Physico-Chemical Data

Properties	Value	Unit
SiO <sub>2</sub> Content	> 99.8	%
Specific Surface Area	175-225	m <sup>2</sup> /g
pH Value	3.7-4.5	-
Loss on Drying	≤ 1.5	%
Tamped Density	apx. 50	g/l

## Application

- Cosmetics
- Paints and coatings
- Adhesives and sealants
- Printing inks
- HTV and LSR
- Cable compounds

## Properties

- Improvement of free flow and anticaking characteristics of powder
- Reinforcement of silicone rubber
- Anti-settling, thickening and anti-sagging agent
- Rheology and thixotropy control of liquid systems, binders and polymers, etc.

# EKASIL 300

Hydrophilic Fumed Silica with a Specific Surface Area of 300 m<sup>2</sup>/g



## Physico-Chemical Data

Properties	Value	Unit
SiO <sub>2</sub> Content	> 99.8	%
Specific Surface Area	270-330	m <sup>2</sup> /g
pH Value	3.7-4.5	-
Loss on Drying	≤ 1.5	%
Tamped Density	apx. 50	g/l

## Application

- Cosmetics
- Paints and coatings
- Adhesives and sealants
- Printing inks
- HTV and LSR
- Cable compounds

## Properties

- Optimal dispersion for thickening and thixotropy
- Reinforcement of silicone rubber
- Excellent transparency in unsaturated polyester resins
- Rheology and thixotropy control of liquid systems, binders and polymers, etc.

# EKASIL 380

Hydrophilic Fumed Silica with a Specific Surface Area of 380 m<sup>2</sup>/g



## Physico-Chemical Data

Properties	Value	Unit
SiO <sub>2</sub> Content	> 99.8	%
Specific Surface Area	350-410	m <sup>2</sup> /g
pH Value	3.7-4.5	-
Loss on Drying	≤ 2.0	%
Tamped Density	apx. 50	g/l

## Application

- Cosmetics
- Paints and coatings
- Adhesives and sealants
- Printing inks
- HTV – Silicon rubber
- Cable compounds

## Properties

- High surface area for best thickening and thixotropy
- Reinforcement of silicone rubber
- Excellent transparency in unsaturated polyester resins
- Rheology and thixotropy control of liquid systems, binders and polymers, etc.
- Flow aid

# EKASIL P150

Fumed Silica Treated with Polydimethylsiloxane



## Physico-Chemical Data

Properties	Value	Unit
SiO <sub>2</sub> Content	≥ 99.8	%
Specific Surface Area	80-120	m <sup>2</sup> /g
pH Value	4.0-6.0	-
Loss on Drying	≤ 0.5	%
Tamped Density	apx. 60	g/l
C Content	3.5-5.0	%

## Application

- Cosmetics
- Cable gels, lubricants and Fiberoptic cables
- Epoxy and vinyl ester resins and gel coats
- Defoamer formulations
- Chalk or powder
- Anti-corrosion systems

## Properties

- Improve water resistance of moisture-sensitive formulations such as cosmetic preparations
- Guarantee marked hydrophobia of the product
- Highly efficient effect in the thickening and thixotropy of complex polar liquids
- Improve anti-settling behavior of pigments and anti-sagging behavior
- Surface additive to increase charge and improve flowability.
- High hydrophobicity, small particle with good flowability.

# EKASIL HM200

Fumed Silica Treated with Hexamethyldisilazane



## Physico-Chemical Data

Properties	Value	Unit
SiO <sub>2</sub> Content	≥ 99.8	%
Specific Surface Area	195-245	m <sup>2</sup> /g
pH Value	5.5-9.0	-
Loss on Drying	≤ 0.5	%
Tamped Density	apx. 60	g/l
C Content	3.0-4.0	%

## Application

- Cosmetics
- Paints and coatings systems
- Silicone rubber
- Adhesives and sealants

## Properties

- Effective rheology control in complex liquid systems
- Anti-settling agent and corrosion protection
- Free flow aid in powder coatings
- Improvement of mechanical and optical properties

# EKASIL HM300

Fumed Silica Treated with Hexamethyldisilazane



## Physico-Chemical Data

Properties	Value	Unit
SiO <sub>2</sub> Content	≥ 99.8	%
Specific Surface Area	230-290	m <sup>2</sup> /g
pH Value	5.5-8.0	-
Loss on Drying	≤ 0.5	%
Tamped Density	apx. 60	g/l
C Content	2.0-3.0	%

## Application

- Adhesive and sealant materials
- Powder coatings, toners or cosmetics
- Agrochemicals
- Polymer systems such as silicone rubber

## Properties

- Large specific surface area and high hydrophobicity
- Good flowability with dispersion properties
- Excellent effect in the rheological control of complex liquid systems
- Excellent flow agent for fine powders



# EKASIL H200

Fumed Silica Treated with Hexadecylsilane



## Physico-Chemical Data

Properties	Value	Unit
SiO <sub>2</sub> Content	≥ 99.8	%
Specific Surface Area	170-210	m <sup>2</sup> /g
pH Value	4.0-5.5	-
Loss on Drying	≤ 1.0	%
Tamped Density	apx. 60	g/l
C Content	0.9-1.8	%

## Application

- Cosmetics
- Water-based coatings systems

## Properties

- Effective rheology control in complex liquid systems
- Anti-settling agent and corrosion protection



# EKASIL D150

Fumed Silica Treated with Dimethyldichlorosilane



## Physico-Chemical Data

Properties	Value	Unit
SiO <sub>2</sub> Content	≥ 99.8	%
Specific Surface Area	90-130	m <sup>2</sup> /g
pH Value	3.6-5.5	-
Loss on Drying	≤ 0.5	%
Tamped Density	apx. 50	g/l
C Content	0.6-1.2	%

## Application

- Paints and coatings
- Adhesives
- Printing inks and toner
- Silicon rubber/sealants
- Cable compounds/ gels
- Plant protection
- Cosmetics

## Properties

- Hydrophobic component for thickening and reinforcement of silicone sealants
- Improve shelf-life of silicone sealants
- Water-resistant, hydrophobicity of liquid systems
- For coatings as anti-settling agent
- For pigment stabilization and improvement of corrosion protection
- Improves hydrophobicity and rheology of inks
- Improves and maintain free flow and anti-caking characteristics of powders

# EKASIL D200

EKASILL200 treated with Dimethyldochlorosilane



## Physico-Chemical Data

Properties	Value	Unit
SiO <sub>2</sub> Content	≥ 99.8	%
Specific Surface Area	150-190	m <sup>2</sup> /g
pH Value	3.7-4.7	-
Loss on Drying	≤ 0.5	%
Tamped Density	apx. 50	g/l
C Content	0.7-1.3	%

## Application

- Paints and coatings
- Adhesives
- Silicon rubber/sealants
- Negative toner
- Coating polymers
- Cosmetics

## Properties

- Hydrophobic component for thickening and reinforcement of silicone sealants
- Improve shelf-life of silicone sealants
- Water-resistant, hydrophobicity of liquid systems
- For coatings as anti-settling agent
- For pigment stabilization and improvement of corrosion protection
- Improves hydrophobicity and rheology of inks
- Improves and maintain free flow and anti-caking characteristics of powders

# EKASIL 200 Pharma



## Physico-Chemical Data

Properties	Value	Unit
SiO <sub>2</sub> Content	≥ 99.0	%
Specific Surface Area	175-225	m <sup>2</sup> /g
Chlorides	≤ 250	ppm
Al Content	Pass	-
Fe Content	≤ 500	ppm
Ca Content	Pass	-
Loss on drying	≤ 2.5	%
Tamped Density	apx. 50	g/l

## Application

- Pharmaceutical uses in all types of dosage forms

## Properties

- Free flow and anti-caking agent to improve powder properties
- Improve tablets properties such as hardness and friability
- Used as viscosity increasing agent to thicken and thixotropic liquids
- Used as anti-setting, thickening and anti-sagging agent
- High purity, low humidity
- No influence of taste
- Not alter natural color of powder formulations

# EKASIL 300 Pharma



## Physico-Chemical Data

Properties	Value	Unit
SiO <sub>2</sub> Content	≥ 99.0	%
Specific Surface Area	270-330	m <sup>2</sup> /g
Chlorides	≤ 110	ppm
Fe Content	≤ 500	ppm
Ca Content	Pass	-
Loss on drying	≤ 2.5	%
Tamped Density	apx. 50	g/l
Volume Test	≥ 70	ml

## Application

- Pharmacy uses especially in semi-solid and liquid dosage forms

## Properties

- Viscosity to thicken and thixotropic liquid
- Improve storage and temperature stability
- Improve distribution of active ingredients
- Desiccant for moisture-sensitive actives
- Free flow and anti-caking agent to improve powder properties

# EKASIL R972 Pharma



## Physico-Chemical Data

Properties	Value	Unit
SiO <sub>2</sub> Content (Assay)	99.0-100	%
Specific Surface Area	90-130	m <sup>2</sup> /g
Limit of Chlorides	≤ 250	ppm
Water dispersible fraction	≤ 3.0	%
Tamped Density	50	g/l

## Application

- Pharmaceutical uses especially in solid dosage forms and emulsions

## Properties

- Glidant for improving powder flow, suitable for very hygroscopic and/or cohesive powder
- Viscosity adjuster for thickening of non-polar pharmaceutical oils
- Stabilizer for water in oil emulsions
- Used to adjust release behavior of active ingredients

# EKASIL XXX

Customized Silica for  
Your Special Applications



## Physico-Chemical Data

Properties	Value	Unit
SiO <sub>2</sub> Content	XX	-
Specific Surface Area	XX	-
pH Value	XX	-
Loss on Drying	XX	-
Etc.	XX	-

## Application

- According to your application

## Properties

- According to your requirements

*EKASIL also provides customization of silica for your special application. Please contact us for the collaboration.*

**EKASIL**

[www.ekasil.com](http://www.ekasil.com)