



HENAN XUNYU CHEMICAL CO., LTD

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SINCE

2006

CORPORATE PROFILE

XUNYUCHEM IS A HIGH-TECH EXPERIENCE AND A LEADER IN FUMED SILICA AND FUMED ALUMINA, COMMITTED TO HELPING OUR CUSTOMERS ACHIEVE OPTIMAL PERFORMANCE.

Henan Xunyu Chemical Co., Ltd. was founded in 2006 to research, manufacture, and market the XYSIL® brand Fumed Silica and the XYAL Fumed Alumina in China. We always provide suitable products and solutions with the best available technology and are always at the forefront of developing sustainable technologies.

Because of their nano-meter particles and ultra-high purity, fumed silica and fumed alumina offer superior performances, helping customers improve their products.

In 2022, our capacity reached 11000 tons/year for Fumed Silica and 600 tons/year for Fumed Alumina. Xunyuchem has a complete manufacturing, application research, and technological development system.

We adhere to scientific and technological innovation all the time. We also passed the certification of the ISO9001 Quality management system, ISO 14001 Environment management system, and full registration of REACH for Fumed Silica and Fumed Alumina, HALAL, and KOSHER.

All we do is ensure the strictest quality requirement. Today XYSIL® is one of the most famous brands for fumed silica supplied worldwide and included by WIKIPEDIA.

We will focus our accumulated resources, including our technology, people, and global group capabilities, on creating materials that can produce new value while contributing to society's needs.

All Xunyuchem people are dedicated to servicing its customers quickly and effectively and with the highest level of integrity.

NOT JUST A POWDER

XYSil

Xunyuchem has produced fumed silica in the brand name since 2006. Fumed Silica is also named Pryopenic Silica, Amorphous Silica, and Colloidal Silicon Dioxide. As a distinctive powder and an indispensable additive, XYSIL has been applied to many fields, from industry to food, from cosmetics to pharma...

XYSil fumed silica has excellent characteristics, e.g., ultra-high chemical purity, large specific surface area, and distinctive particle nature, which help customers to improve their products in rheology, thixotropy control, anti-settling, thickening, anti-sagging, free flow, suspension, and reinforcement, and many more fields.

Through the efforts of technical teams, we supply more than twenty grades of hydrophilic and hydrophobic fumed silica to customers worldwide.

Fumed-Silica.net

XYAL

Another special powder from Xunyuchem is Fumed Alumina. Based on the technology developed for fumed silica, Xunyuchem started to produce Fumed Alumina in 2016. Fumed Alumina is different from the general Al_2O_3 . XYAL shows the ultra-high purity of Al_2O_3 and an excellent charge characteristic.

Xunyu develops three grades of fumed alumina for powder paint, Li-ion battery, photo paper, thermal insulation, and melt-blown fabric of mask.

Fumed-Alumina.net



HYDROPHILIC GRADES

- XYSIL® 150
- XYSIL® 200
- XYSIL® 300
- XYSIL® 380
- XYSIL® 200F
- XYSIL® 200P
- XYSIL® 300P
- XYSIL® 380P



HYDROPHOBIC GRADES

- XYSIL® R120B
- XYSIL® R120H
- XYSIL® R170H
- XYSIL® R170B
- XYSIL® R230



SPECIFICATION

XYSIL Hydrophilic Fumed Silica				
Grades	BET surface area[m ² /g]	Loss on drying[%]	PH value	SiO ₂ content[%]
XYSIL 150	150±25	≤1.5	3.8-4.5	≥99.8
XYSIL 200	200±25	≤1.5	3.8-4.5	≥99.8
XYSIL 300	300±25	≤1.5	3.8-4.5	≥99.8
XYSIL 380	380±25	≤1.5	3.8-4.5	≥99.8
XYSIL 200LS	220±25	≤1.5	3.8-4.5	≥99.8
XYSIL 200P	200±25	≤1.5	3.5-5.5	99.0-100.5
XYSIL 300P	300±25	≤1.5	3.5-5.5	99.0-100.5
XYSIL 380P	380±25	≤1.5	3.5-5.5	99.0-100.5
XYSIL 200F	200±25	≤1.5	3.8-4.5	≥99.8



XYSIL Product ensures the best quality for your products.



XYSIL pharma grades as a key excipients in a wide range of pharmaceutical and nutritional supplement products.

XYSIL Hydrophobic Fumed Silica					
Grades	BET surface area[m ² /g]	Loss on drying[%]	PH value	Carbon content[%]	Surface modification
XYSIL R120B	120±20	≤0.5	3.7-5.5	0.6-1.2	DDS
XYSIL R200H	120±20	≤0.5	4.5-6.5	3.5-5.5	PMDS
XYSIL R170B	170±20	≤0.5	5.0-8.0	2.0-4.0	DDS
XYSIL R170H	170±20	≤0.5	3.7-4.7	0.7-1.3	DDS
XYSIL R230	250±20	≤0.5	5.5-8.0	2.5-3.0	HMDS

XYSIL FUMED SILICA

The excellent functions

- Thickening;
- Reinforcement;
- Thixotropy;
- Rheology Control;
- Free-flow;
- Sag Resistance;
- Anti-Settling;
- Heat and sound insulation;
- Excellent transparency;
- Anti-settling;
- Anticaking characteristics;



XYLIL Fumed Silica Application and Selection Guide

Application		Primary Performance Criteria	Suggest Grade	Suggest Addition (M/M%)
HTV Silicone Rubber		Reinforcement; Elongation Resistance; Ease of Compounding	XYLIL150; XYLIL200	15-50
RTV Silicone Rubber	RTV-silicone sealant (1 component)	Reinforcement; Thixotropy Rheology control, dispersability	XYLIL150; XYLIL200; XYLIL380;	3.0-30
	RTV-molding compound			3.0-30
	Liquid Silicone Rubber			15-35
RTV Silicone Rubber	Polychloroprene	Thickening; Thixotropy; Anti-settling; Sag Resistance; Extrusion Rate; Rheology Control	XYLIL200; XYLIL300; XYLIL380; XYLIL R120H;	1.0-2.0
	Epoxide Resin			
	Latex			
PVC	Plastisol	Thickening; Thixotropy; Anti-settling; Free-flow; Insulation	XYLIL200; XYLIL300;	0.3-2.5
	Organosol			0.1-1
	Plastisol PVC Mixture			1.0-2.0
	Cable Compound			0.1-1
Paints & Coating	Membrane			
	Zinc Rich Paints	Thickening; Thixotropy;	XYLIL200;	0.5-2
	Alkyd Paints		XYLIL200;	0.5-2
	Acrylics Paints	Anti-settling Thickening; Thixotropy; Free-flow	XYLIL200; XYLIL300; XYLIL380; XYLIL R120H; XYLIL R120B,R170H	0.3-2.5
	Polyester Paints			0.5-2.5
	Powder Coating			0.5-5
Gel Coating (Polyester)	2.0-3.0			
Unsaturated Polyester Resin	Laminating Resin	Thickening; Thixotropy; Anti-settling;	XYLIL 200 / 200LS; XYLIL300;XYLIL380; XYLIL R120B; R120H;	0.8-1.5
	Gel coating			2.0-3.0
	Grouting mixture			0.5-2.0
Print Ink	Relief Printing	Thickening; Thixotropy; Anti-settling; Sag Resistance; Rheology Control	XYLIL200; XYLIL380; XYLIL R120B;R120H;	0.5-2.0
	Intaglio Printing			
	Hectograph			XYLIL150; XYLIL200;
Insulating Glue		Thickening; Thixotropy;	XYLIL200;	5.0-10
Relief Printing	Grouting mixture	Heat and sound insulation	XYLIL150; XYLIL200; XYLIL380;	70-95
	Ceramic Cooktop			60-80
Pharmaceuticals	Tablets	Free-flow,processing adi,disintegrant reduced compacting forces,Thickening Heat stability	XYLIL200P;XYLIL300P; XYLIL380P;	1.5-10
	Dragees			3.0-12
Batteries	Battery Gels, Lithium Ion Batteries	Thickening,Thixotropy, Gel Foramation Thermal Stability, Electrolyte wettability	XYLIL200; XYLIL380;	2.0-6.0
Cosmetics, Personal care	Color Make-up; Nail polish, Hair and body care	Thickening,Thixotropy, Antisedimentation,Free-flow	XYLIL200P; XYLIL R120H, R120B;	0.2-10
Food	Powders food;carbohydrates	Flavors,Dry Soup,Spice,Flavors	XYLIL200F;XYLIL380F;	0.5-3.0

XYAL

Fumed Alumina
Fumed Aluminium Oxide(Al₂O₃);
Aluminium Oxide;

FUMED ALUMINA GRADES

XYAL 60
XYAL 80
XYAL 100

THE BENEFITS OF FUMED ALUMINA

- Free-flow and anti-caking;
- Anti-settling;
- Anti-sag;
- Thickening;
- Reinforcement;
- Insulation;



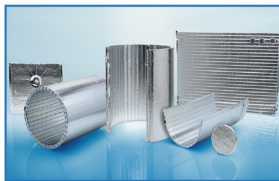
SPECIFICATION

XYAL Fumed Alumina						
Grades	BET surface area[m ² /g]	Loss on drying[%]	PH value	Alumina content[%]	Tamped density[g/l]	Sieve residue(45μm)[%]
XYAL 60	55-70	≤1.5	4.5-5.5	≥99.8	Approx.50	≤0.050
XYAL 80	70-85	≤1.5	4.5-5.5	≥99.8	Approx.50	≤0.050
XYAL 100	85-115	≤1.5	4.5-5.5	≥99.8	Approx.50	≤0.050

APPLICATION



Powder Coating



Thermal Insulation



Composite Material



Photo Paper



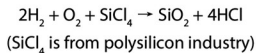
Li-ion Batteries

MANUFACTURING FUMED SILICA AND FUMED ALUMINA

- The High-advanced technology & Strong R&D and product development capabilities;
- Standardized operation of quality management system;
- Experienced and committed management team;

Fumed Silica Hydrophilic Grades

YSIL hydrophilic grades are manufactured by a continuous flame hydrolysis process of silicon tetrachloride(SiCl_4). In the flame, hydrogen and oxygen are reacted in the presence of SiCl_4 . During this process, SiCl_4 is converted into a gaseous state and then reacts spontaneously and quantitatively in an oxyhydrogen flame with the intermediately formed water to produce the desired Silicon Dioxide.



The process contains multiple aggregations, acid stripping, solid-gas separation, deacidifying, packing, and waste gas treatment. The primary particle size is about 7-40nm, it is challenging to aggregate and collect the product. However, our expert teams solved all issues and ensured the consistency of product particle size, which is one of the most important keys to product quality.

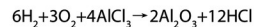
Fumed Silica Hydrophobic Grades

On the basis of hydrophilic grades fumed silica, can get the hydrophobic grades fumed silica by reacting hydrophilic silanol groups with organic groups (Dimethyldichlorosilane, Polydimethylsiloxane, or hexamethyldisilazane).

Hydrophobic products can not mix with water. Our team is researching new hydrophobic grades for more applications.

Fumed Alumina

With similar technology to Hydrophilic Fumed Silica, we produce Fumed Alumina with the raw materials of AlCl_3 . Certainly, the system controls are different.



QUALITY STANDARDS & CERTIFICATE

XunyuChem is committed to customer satisfaction and social responsibility, which are the driving forces for lasting progress. By acquiring international certifications, we proved our ability, gained international credibility, and become a favoured supplier of products. We obtained management system certification under ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018. We also passed the HALAL, and KOSHER certifications. By doing the full registration of REACH, KKDII, and K-REACH for Fumed Silica and Fumed Alumina, we are ready to service customers from different regions.





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