



Professional Supplier Of New Silica Materials
PRODUCT CATALOG



HHC
Benefit | Cooperation | Integrity

www.hhc-silica.com
2023 Version



Premium Silica Additive
Smart choice for high-performance coatings



PROFESSIONAL SUPPLIER OF SILICA NEW MATERIALS

Company Profile

HHC New Material Ltd is a technology-based company that focuses on developing, producing, and selling SILICA additives. We own the intellectual property for our production technology and equipment. We also have many patents for silica products, particularly for silica modification and treatment technology, which are at the leading edge in the world.

With excellent product quality and performance, our products get great feedback when launched and gain a good market share. In the future, we will continue to provide new products and technologies and play a greater role in the field of environmental protection for new silica materials.



Production Capacity

We have seven production lines, which are advanced and professional. The average monthly output is 500 tons of silica materials per month, and the maximum output is 700 tons .



Brand Meaning

HHC Brand meaning: Bring the **BENEFIT** to client;
COOPERATION with win-win with the client; **INTEGRITY** as the code of conduct;



Our Service

Provide a stable quality product to clients, and offer testing reports and quality assurance commitment for every shipping. Assist our clients in solving technical problems.
Provide clients with product selection suggestions, as well as physical and chemical analysis suggestions.



Product Line

HHC provides silica additives in the following segments
Matting agents Anti-corrosive pigments
Anti-blocking agents Absorbent for ink-receptive coatings

Silica Anti-Corrosion Pigments

The new generation of anti-corrosion pigments with efficient, non-toxic, no heavy metal, ion-exchanged silica is the smart choice to respond to the high requirements for environmental protection. Through thousands time testing and experiment, HHC anti-corrosion pigments have been proven to have great compatibility with water-based coating systems with efficient and lasting anti-corrosion ability, and product performance and quality have reached a world-class level!

Features

Environmental protection, no heavy metals, low oil absorption, easy to disperse, not easy to foam, long-lasting protection

Package

Double packing, built-in waterproof kraft paper bag.

Application

Home appliance panels, metal coils, construction machinery, containers, ships, bridges, etc.

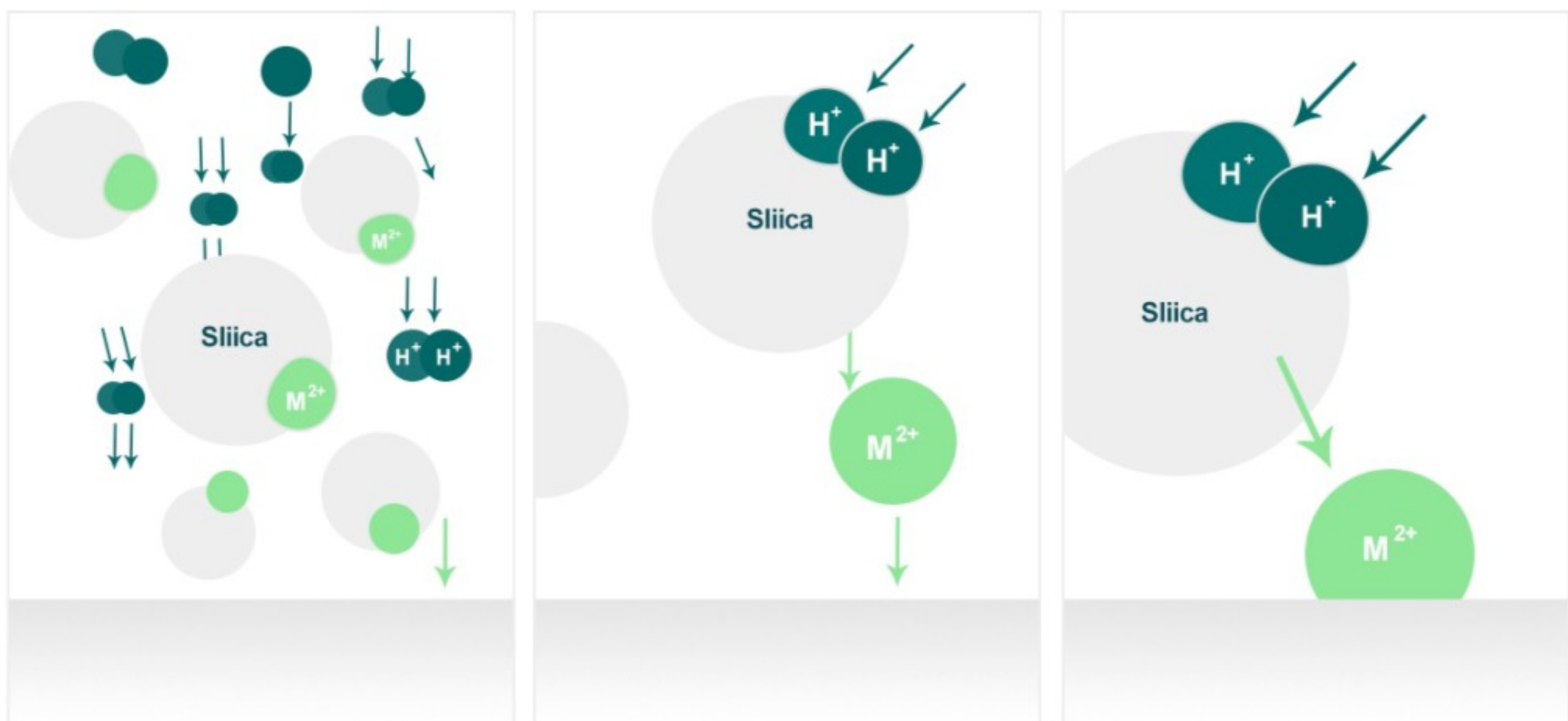




Product Technical Information

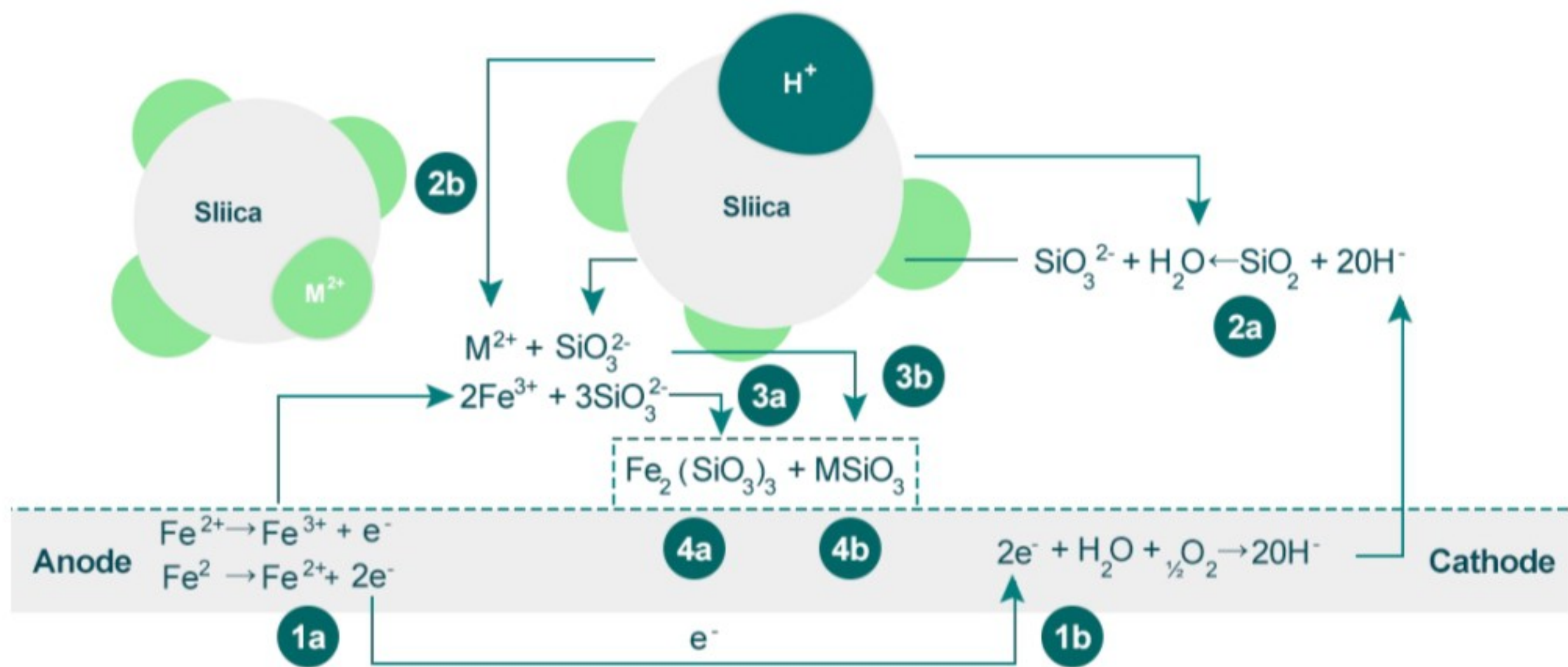
Chemical Protection

Resists acid corrosion, Anti-corrosion pigments modified with calcium ions, will react with water molecules and hydrogen ions which seep into the coating film. It will generate hydroxide ions and release calcium ions to keep the pH value as neutral or alkaline. It avoids the metals for acidic hydrogen evolution corrosion and reduces the coating films' bulge phenomenon.



Physical Protection

When metals have corrosion, the anode generates iron or ferrous ions, and the cathode generates hydroxide ions. The hydroxide ion will react with silica and release a silicate ion. The hydroxide will react with the iron or calcium ion to generate silicate and cover the surface of the metal to give an inert protective layer. Therefore, any further electrochemical reaction of the metal is prevented, and any further corrosion is prevented from occurring effectively.



Parameter

Products	Particle Size D50 (um)	Pore Volume (ml/g)	Oil Absorption DBP (g/100g)	pH	Heating Loss 105°C (≤%)	Ignition Loss 1000°C (≤%)
MS730	2.8~3.2	0.3~0.4	70~90	6~8	5	8
MS770	2.8~3.2	0.2~0.3	40~60	8~10	5	8
MS775	6.0~7.0	0.2~0.3	40~60	8~10	5	8
MS780	2.8~3.2	0.2~0.3	50~70	8~10	5	8
MS795	6.0~7.0	0.2~0.3	30~50	8~10	5	8
RP300	2.5~3.0	0.3~0.5	70~90	6~8	5	14
RP500	2.5~3.0	0.2~0.3	50~70	6.5~8.5	5	14

Silica Anti-blocking Agents

HHC provides a total solution for anti-blocking for the plastic film industry: to solve the blocking problem of various process types of plastic films. These don't affect the transparency and strength of films and can be allowed in product application of food grade.

Features

Easy to disperse, narrow particle size distribution, good transparency, great of anti-blocking performance, etc.

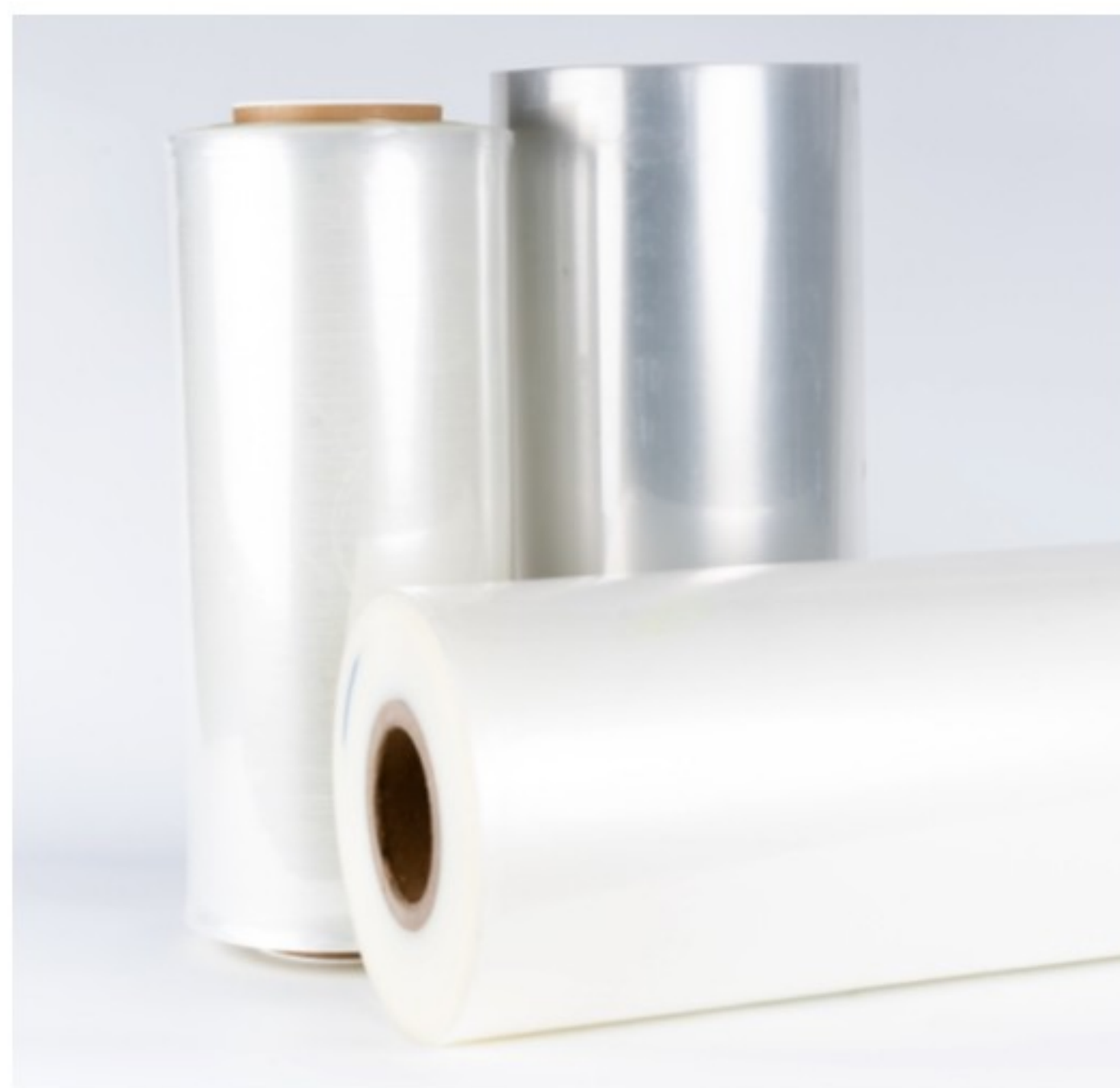
Package

Double packing,
built-in waterproof kraft paper bag.

Application

Polypropylene, Polyethylene, Polyethylene terephthalate, Polyvinyl chloride, and other process types of plastic films.

Parameter



Products	Particle Size D50 (um)	Pore Volume (ml/g)	pH	Heating Loss 105°C (≤%)	Ignition Loss 1000°C (≤%)	Sio2 content (≥%)	Iron content ppm≤
MS520	2.0~2.4	0.9	6~8	2	8	99	60
MS530	2.8~3.2	0.9	6~8	2	8	99	60
MS540	3.8~4.2	0.9	6~8	2	8	99	60
MS590	8.8~9.2	0.9	6~8	2	8	99	70
MS532	2.8~3.2	1.6	6~8	2	6	99	70
MS542	3.6~4.0	1.6	6~8	2	6	99	70
MS551	4.6~5.0	0.5	6~8	2	8	99	70
MS571	6.8~7.2	0.6	6~8	2	8	99	60

Silica Adsorbent For Digital Ink-jet Prints

New technologies and markets for the digital printing industry are constantly developing. Clients have higher and higher requirements for quality and cost control. To face the increasing competition for marketing, HHC provides a cost-effective solution: the lowest pricing with stable performance and quality. Customer service and support are continuous!

Features

Bright colors, good ink absorbency, easy to disperse, etc.

Package

Double packing, built-in waterproof kraft paper bag, 15 kg/bag.

Application

Photo paper, advertising canvas, thermal paper, etc.

Parameter



Products	Particle Size D50 (um)	Pore Volume (ml/g)	Oil Absorption DBP (g/100g)	pH	Surface Treatment
MS620	1.6~2.0	0.5	100~150	6~8	No
MS670	6.0~6.4	1.4	240~280	6~8	No
MS670A	5.8~6.2	1.5	250~300	6~8	No
MS680	6.6~7.0	1.5	250~300	6~8	No

Silica Matting Agents for 3C Coatings

As a branch of industrial coating, the 3C coating is mainly used for computers, communications, and consumer electronics for product coating. The product look and performance will be better when silica matting agents are used. Choosing HHC's 3C special matting agent is a wise choice to help customers improve product quality!

Features

High performance of matting, easy to disperse, excellent feel to the touch, scratch resistant.

Package

Double packing, built-in waterproof kraft paper bag, 10 kg/bag.

Application

Plastic paint, toy paint, UV paint, etc.

Parameter



Products	Particle Size D50 (um)	Oil Absorption DBP (g/100g)	pH	Surface Treatment
MS930	3.0~3.4	280~350	6~8	No
MS932	3.6~4.0	280~350	6~8	Yes
MS950	4.0~4.4	280~350	6~8	No
MS952	6.6~7.0	280~350	6~8	Yes

Silica Matting Agents for UV Coatings

In the wood coating field, UV coating is a unique branch of application. This is due to the special processing as it has many different requirements. Benefiting from years of industry experience and unique surface treatment technology, HHC silica matting agents for the UV coating series can satisfy clients' demands and help them to produce high-quality products.

Features

High performance of matting, stable gloss, stable viscosity, excellent feel to the touch, scratch resistant.

Package

Double packing, built-in waterproof kraft paper bag, 10 or 15 kg/bag.

Application

UV cure wood coating, PVC sheet, etc.

Parameter



Products	Particle Size D50 (um)	Pore Volume (ml/g)	Oil Absorption DBP (g/100g)	pH	Surface Treatment
MS8550	5.2~5.6	1.0	140~200	6~8	Yes
MS8690	8.0~8.5	1.5	240~300	6~8	Yes
MS870	7.0~7.4	1.5	220~280	6~8	No
MS890	9.6~10.0	1.1	160~220	6~8	No

Silica Matting Agents for Leather Coatings

This series is produced using the precipitation method. The performance is outstanding after the special surface treatment, and it is the smart choice for premium leather coating!

Features

Easy to disperse, good transparency, and matting performance.

Package

Double packing, built-in waterproof kraft paper bag, 10 kg/bag.

Application

Leather Coating

Parameter



Products	Particle Size D50 (um)	Oil Absorption DBP (g/100g)	pH	Surface Treatment
MS314	3.0~3.4	300~380	6~8	Yes
MS320	3.6~4.0	300~380	6~8	Yes
MS330	2.6~3.0	280~360	6~8	No
MS220	2.0~2.4	220~280	6~8	No

Silica Matting Agents for Ink and Textile Coatings

Silica matting agents have been proven to have excellent compatibility with ink and textile coatings. They can also increase the result of ink and textile systems. With technical expertise from the HHC tech team, we provide a total solution for our clients.

Features

Bright colors, good transparency, easy to disperse;

Package

Double packing, built-in waterproof kraft paper bag, 10 kg/bag.

Application

Textile coating, ink, rubber gloves;

Parameter



Products	Particle Size D50 (um)	Oil Absorption DBP (g/100g)	pH	Surface Treatment
MS220	2.0~2.4	220~280	6~8	No
MS230	3.6~4.0	220~280	6~8	No
MS1450	4.6~5.0	240~300	6~8	No
MS1550	5.0~5.4	280~360	6~8	No
MS952	6.6~7.0	280~350	6~8	Yes

Silica Matting Agents for Waterborne Coatings

Waterborne coating systems are the model for environmentally friendly products, which are becoming increasingly popular in the market. This coating system has a very different demand and especially in surface treatment. Our professional technical team developed a special matting agent for waterborne coatings. They have a wide range of applications and excellent performance in all aspects.

Features

Good transparency, strong matting performance, easy to disperse

Package

Double packing, built-in waterproof kraft paper bag, 10 kg/bag.

Application

Water-based wood coating, water-based industrial coating, etc.

Parameter



Products	Particle Size D50 (um)	Oil Absorption DBP (g/100g)	pH	Surface Treatment
MS130W	3.8~4.2	260~320	6~8	Yes
MS150W	4.8~5.2	260~320	6~8	Yes
MS930	3.8~4.2	280~350	6~8	No
MS8450	4.8~5.2	280~330	6~8	Yes

General Silica Matting Agents

HHC, as a new challenger in the silica matting agent field, uses an advanced production process in the industry: precipitation and gel method, to provide matting agents with stable quality and excellent physical and chemical parameters which can meet industrial application requirements.

Especially in surface treatment, the performance can reach high levels worldwide. It is suitable for a wide range of industries.



Features

- High matting efficiency
- Excellent transparency
- Good anti-settling and easy to disperse
- Delicate and smooth to the touch.

Package

Double packing, built-in waterproof kraft paper bag, 10kg/bag.

Application

Wood Coating, Coil Coating, General Industrial Coating, etc.



Parameter

Products	Particle Size D50 (um)	Pore Volume (ml/g)	Oil Absorption DBP (g/100g)	pH	Surface Treatment
MS120	2.2~2.6	1.8	240~300	6~8	No
MS121	2.8~3.2	1.8	240~300	6~8	Yes
MS130	3.6~4.0	1.8	240~300	6~8	No
MS130H	3.6~4.0	1.6	220~280	6~8	Yes
MS131	3.6~4.0	1.8	240~300	6~8	Yes
MS150	4.6~5.0	1.8	240~300	6~8	No
MS150H	4.6~5.0	1.6	220~280	6~8	Yes
MS151	4.6~5.0	1.8	240~300	6~8	Yes
MS160	5.6~6.0	1.8	240~300	6~8	No
MS161	5.6~6.0	1.8	240~300	6~8	Yes
MS170	6.6~7.0	1.8	260~320	6~8	No
MS1560	5.2~5.6	2.0	280~350	6~8	No
MS1450	4.6~5.0	1.8	240~300	6~8	No
MS1461	6.0~6.4	1.8	260~320	6~8	No
MS1470	7.6~8.0	1.8	240~300	6~8	No





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