



Minmetals East

Product Guidelines

HJSIL[®]



SILICON DIOXIDE

Henan Minmetals East Silicon Industry Co., Ltd

Company Profile



Henan Minmetals East Silicon Industry Co., Ltd., the subsidiary of Henan Minmetals East Industrial Co., Ltd., as the main operating unit for silicon material, is a modern high-tech enterprise, specialized in R&D, production, marketing high-end silica product lines and providing solutions. With leading production technics and advanced processing equipment, relying on the advantages of local resources, the company owns production line for annual 8000MT fumed silica. It ranks one of the top 10 professional suppliers of fumed silica. Its brand HJSIL® and MESIL® have more than 10 years sales experience in main regions of the world. The products are widely used in various fields of coatings and paints, inks, adhesives and sealants, silicone rubbers, resins, insulations, batteries, foods, pharmaceuticals, daily chemicals and building materials, enjoyed good reputation. The company adheres to the development concept of "Work hard to strive for excellence", and puts efforts in constant innovation and development of silicon industry. Hope to work with you, discovering the infinite possibility of silica for human living and industrial application.



Descriptions

- HJSIL® fumed silica is a kind of high purity white colloidal powder, including hydrophilic & hydrophobic types.

Applications

- HTV and RTV silicone rubber, LSR
- Adhesives and sealants
- Cable compounds and battery
- Paints, coatings, pigments, inks and toner
- SAP, UPR, laminated resins and Gel coats
- Thermal insulation

Properties

- Reinforcement filler in elastomers
- Rheology and thixotropy control of liquid systems, binders, polymers, etc.
- Used as anti-settling, thickening, anti-sagging agent
- Improvement of free flow and anti-caking characteristics of powders
- Excellent transparency

Physical and Chemical Specifications

Hydrophilic Series

HJSIL grades	BET surface area [m ² /g]	Loss on drying [wt.%]	PH	Carbon content [wt.%]	Loss on ignition [wt.%]	Sieve residue [wt.%]	Silica content [wt.%]	Tamped density [g/L]
HJSIL 150	150 ± 25	≤ 1.5	3.6 ~ 4.5	≤ 0.2	≤ 2.5	≤ 0.05	≥ 99.8	40 ~ 60
HJSIL 200	200 ± 25	≤ 1.5	3.6 ~ 4.5	≤ 0.2	≤ 2.5	≤ 0.05	≥ 99.8	40 ~ 60
HJSIL 200D	200 ± 25	≤ 1.5	3.6 ~ 4.5	≤ 0.2	≤ 2.5	≤ 0.05	≥ 99.8	60 ~ 100
HJSIL 200L	210 ~ 240	≤ 1.5	3.6 ~ 4.5	≤ 0.2	≤ 2.5	≤ 0.05	≥ 99.8	40 ~ 60
HJSIL 300	300 ± 25	≤ 1.5	3.6 ~ 4.5	≤ 0.2	≤ 2.5	≤ 0.05	≥ 99.8	40 ~ 60
HJSIL 380	380 ± 30	≤ 1.5	3.6 ~ 4.5	≤ 0.2	≤ 2.5	≤ 0.05	≥ 99.8	40 ~ 60

Hydrophobic Series

HJSIL grades	BET surface area [m ² /g]	Loss on drying [wt.%]	PH	Carbon content [wt.%]	Silica content [wt.%]	Tamped density [g/L]	Loss on ignition [wt.%]	Treated with
HJSIL R110	100 ± 20	≤ 0.5	4.0 ~ 7.0	3.5 ~ 5.5	≥ 99.8	40 ~ 60	4.0 ~ 6.0	PDMS
HJSIL R110H	190 ± 20	≤ 0.5	4.0 ~ 7.0	3.5 ~ 5.5	≥ 99.8	40 ~ 60	4.0 ~ 6.0	PDMS
HJSIL R272	110 ± 20	≤ 0.5	3.8 ~ 5.0	0.6 ~ 1.2	≥ 99.8	40 ~ 60	≤ 2.0	DDS
HJSIL R274	170 ± 20	≤ 0.5	3.8 ~ 5.0	0.7 ~ 1.3	≥ 99.8	40 ~ 60	≤ 2.0	DDS
HJSIL R620	180 ± 20	≤ 0.5	5.5 ~ 7.5	1.6 ~ 2.0	≥ 99.8	40 ~ 60	≤ 4.0	HMDS
HJSIL R622	260 ± 30	≤ 0.5	5.5 ~ 7.8	2.8 ~ 4.0	≥ 99.8	40 ~ 60	≤ 4.0	HMDS

Packaging and Storage

- 10KG kraft paper bags.
- Store in closed containers under dry conditions.
- Avoid from volatile substances.

Factory Gallery

Palletizing



Testing



Loading



Warehouse

Expressway to Tianjin port 750km;
Expressway to Qingdao port 800km;
Expressway to Shanghai port 1100km;