

HJSIL® R110 Hydrophobic fumed silica

Characteristics

HJSIL® R110 is a kind of hydrophobic fumed silica, treated with poly-dimethylsiloxane. It's high purity white colloidal powder.

Packaging and storage

HJSIL® R110 is supplied in 10kg kraft paper bags. We recommend to store the product in closed containers under dry conditions and to protect the material from volatile substances.

Applications

- Adhesives and sealants
- Composite materials
- Glass-steels
- Flake resins
- Coatings and inks
- Cable gels
- Toner

Properties

- Thickening and thixotropy of complex polar liquids, for example epoxy, polyurethane or vinyl ester resins
- Thickening and thixotropy of cable gels for fiber optic cables
- Anti-settling agent for heavy fillers

Characteristic physico-chemical data

Properties and test methods	Unit	Typical value	Standardization
Specific surface area (BET)	m ² /g	100 ± 20	GB/T20020
pH value (in 4% dispersion)		4.0 ~ 7.0	GB/T20020
Loss on drying (2 hours at 105 °C)	Wt%	≤ 0.5	GB/T20020
Loss on ignition (2 hours at 1000 °C, based on material dried for 2 hours at 105 °C)	Wt%	4.0 ~ 6.0	GB/T20020
Silica content (based on ignited material)	Wt%	≥ 99.8	GB/T20020
Tamped density (based on material dried for 2 hours at 105 °C)	g/L	40 ~ 60	GB/T20020
Carbon content (based on material dried for 2 hours at 105 °C)	Wt%	3.5 ~ 5.5	GB/T20020

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