



## Chemical Village CO., LTD.

20/2 (B4), Teparak Rd, Bangplee Yai, Bangplee,  
Samutprakarn, Thailand 10540

**Tel :** 66 2757 5290    **Fax :** 66 2757 5292

**email :** [chemicalvillage@hotmail.com](mailto:chemicalvillage@hotmail.com)    **website :** [www.chemicalvillage.com](http://www.chemicalvillage.com)

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### FUMED SILICA

Fumed silica, also known as pyrogenic silica because it is produced in a flame, consists of microscopic droplets of amorphous silica fused into branched, chainlike, three-dimensional secondary particles which then agglomerate into tertiary particles. The resulting powder has an extremely low bulk density and high surface area. Its three-dimensional structure results in viscosity increasing, thixotropic behavior when used as a thickener or reinforcing filler.

### **Applications**

Fumed silica serves as a universal thickening agent, in milkshakes for example, and a anticaking agent (free-flow agent) in powders. Like silica gel, it serves as a desiccant. It is used in cosmetics for its light-diffusing properties. It is used as a light abrasive, in products like toothpaste. Other uses include filler in silicone elastomer and viscosity adjustment in paints, coatings, printing inks, adhesives and unsaturated polyester resins.



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### FUMED SILICA HL-150

Items	HL-150
Specific surface area(BET)	150±15m <sup>2</sup> /g
pH value in 4% dispersion	3.7-4.5
Loss on drying(2h,105°C)	≤1.5%
Loss on ignition(2h 1000°C, based on material dried for 2h 105°C)	≤2.0%
Sieve residue(45um)	≤0.04%
Silica content(based on ignited material)	≥99.8%
Tamped density(based on material dried for 2h, 105°C)	40-60g/L
Carbon content(based on material dried for 2h, 105°C)	≤0.15%



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### FUMED SILICA HL-200

Items	HL-200
Specific surface area(BET)	200±20m <sup>2</sup> /g
pH value in 4% dispersion	3.7-4.5
Loss on drying(2h,105°C)	≤2.0%
Loss on ignition(2h 1000°C, based on material dried for 2h 105°C)	≤2.0%
Sieve residue(45um)	≤0.04%
Silica content(based on ignited material)	≥99.8%
Tamped density(based on material dried for 2h, 105°C)	40-60g/L
Carbon content(based on material dried for 2h, 105°C)	≤0.15%



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### FUMED SILICA HL-300

Items	HL-300
Specific surface area(BET)	300±25m <sup>2</sup> /g
pH value in 4% dispersion	3.7-4.5
Loss on drying(2h,105°C)	≤2.5%
Loss on ignition(2h 1000°C, based on material dried for 2h 105°C)	≤2.5%
Sieve residue(45um)	≤0.04%
Silica content(based on ignited material)	≥99.8%
Tamped density(based on material dried for 2h, 105°C)	40-60g/L
Carbon content(based on material dried for 2h, 105°C)	≤0.15%