

## ● Flattening and Thickening

### ■ Silica for Coatings, Paints, Inks

- This series of products uses a special manufacturing technique and features high transparency, high oil absorption, high specific surface area, large pore volume, good matting performance, and good anti-settling properties. It is widely used in the paints, coatings, and inks industries. Adding silica will improve the viscosity of coatings and paints, thus enhancing the convenience in using these materials.

### JS-280 powder for flattening agent

Test Methods	Properties	Units	Target Values (Spec Limits)	Actual Values
HG/T3065-2008	Loss on drying (2Hrs,105℃)加热减量	%	4.0-7.0	6.63
HG/T3066-2008	Ignition loss 1000℃ 灼烧减量	%	Max.7.0	4.32
HG/T3072-2008	DBP absorption value DBP 吸收值	cm <sup>3</sup> /g	3.3-3.5	3.38
HG/T3067-2008	pH value (10%aqueous suspension) pH 值	—	6.0-8.0	6.89
HG/T3062-2008	SiO <sub>2</sub> (Dry Basis) 二氧化硅(干基)	%	Min.96	98
HG/T3073-1999	BET specific surface area BET 比表面积	m <sup>2</sup> /g	260-280	273
	Soluble salt (Na <sub>2</sub> SO <sub>4</sub> ) 可溶性盐	%	Max.1.5	0.83
HG/T3064-2008	45μm sieve residue	%	Max.0.5	<0.1

**JS-180GR super BET Silica for Flating Agent**

Test Methods	Properties	Units	Target Values (Spec Limits)	Actual Values
HG/T3065-2008	Loss on drying (2Hrs,105℃)加热减量	%	4.0-7.0	5.66
HG/T3066-2008	Ignition loss 1000℃ 灼烧减量	%	Max.7.0	4.53
HG/T3072-2008	DBP absorption value DBP 吸收值	cm <sup>3</sup> /g	2.0-3.5	2.68
HG/T3067-2008	pH value (10%aqueous suspension) pH 值	—	6.0-8.0	6.67
HG/T3062-2008	SiO <sub>2</sub> (Dry Basis) 二氧化硅(干基)	%	Min.98	98.1
HG/T3073-1999	BET specific surface area BET 比表面积	m <sup>2</sup> /g	280-320	308
	Soluble salt (Na <sub>2</sub> SO <sub>4</sub> ) 可溶性盐	%	Max.1.5	0.87

## ■ Silica for Adhesives and Sealants

- This product is characterized by high dispersion, high reinforcement and high transparency. Its use in adhesives and sealants can effectively enhance their reinforcement and thixotropic properties, increase their viscosity, as well as improve their flowability to prevent caking. Because of its small particles, it can also improve the leakproofness and anti-seepage properties of adhesives and sealants.

### JS-280 Silica for flatting and thickening

Test Methods	Properties	Units	Target Values (Spec Limits)	Actual Values
HG/T3065-2008	Loss on drying (2Hrs,105℃)加热减量	%	4.0-7.0	5.24
HG/T3066-2008	Ignition loss 1000℃ 灼烧减量	%	Max.7.0	4.18
HG/T3072-2008	DBP absorption value DBP 吸收值	cm <sup>3</sup> /g	3.2-3.8	3.55
HG/T3067-2008	pH value (10%aqueous suspension) pH 值	—	6.0-8.0	6.92
HG/T3062-2008	SiO <sub>2</sub> (Dry Basis) 二氧化硅(干基)	%	Min.96	98
HG/T3073-1999	BET specific surface area BET 比表面积	m <sup>2</sup> /g	—	291
	Soluble salt (Na <sub>2</sub> SO <sub>4</sub> ) 可溶性盐	%	Max.1.5	0.81
	Average particle size 平 均粒径	μm	-	13-14
HG/T3064-2008	45μm sieve residue	%	Max.0.5	<0.1