

Silica powder

Silica powder is made by pulverizing and classifying good-quality silica powder produced in Korea, China or our home base of Bizen.

Features

In recent years there have been concerns that crystalline silica may have an effect on health, but it is widely used as a raw material available at a low cost and in limitless supply. About 60% of the stone oxides that make up the earth's crust are silicates(SiO_2), mainly in the form of quartz.

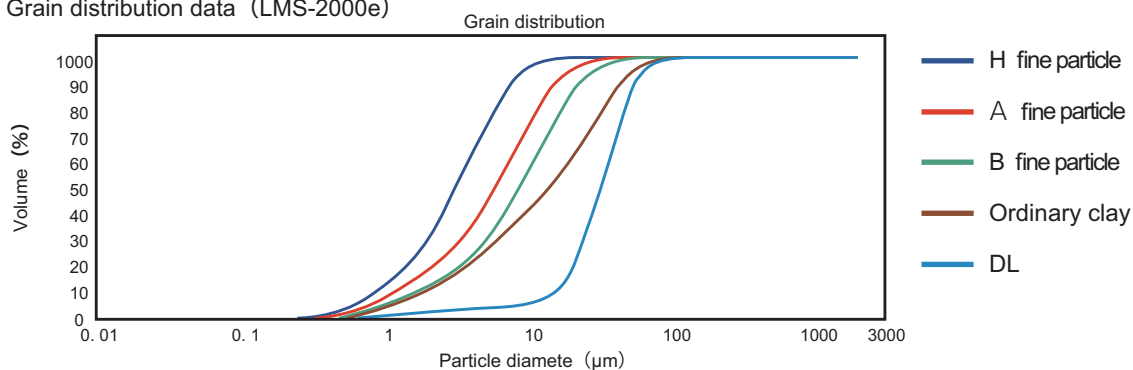
This material is used in a wide range of applications, depending on the purity of the SiO_2 , including fire resistant materials, ceramics, glass, cement, agrochemical carriers, construction materials, coatings, resin fillers, as well as for ferroalloys and as a grinding material.

Properties of Domestic Powder Products (typical values)

Product name		Ordinary clay	DL	A Fine powder	B Fine powder	H fine powder	WR clay
Grade		Ordinary	DL	Fine powder	Fine powder	Fine powder	Ordinary
Chemical composition (%)	Ig.loss	0.55	0.41	0.71	0.60	0.90	2.75
	SiO_2	96.37	97.22	95.62	96.40	94.09	83.02
	Al_2O_3	1.93	1.47	2.22	1.97	3.25	13.17
	Fe_2O_3	0.39	0.31	0.44	0.40	0.60	0.11
	CaO	0.08	0.08	0.08	0.06	0.08	0.08
	MgO	0.08	0.08	0.08	0.07	0.10	tr
	K_2O	0.28	0.19	0.32	0.23	0.60	0.09
	Na_2O	0.03	0.02	0.04	0.02	0.02	0.15
Physical properties	TiO_2	0.29	0.23	0.49	0.25	0.35	0.63
	pH	6.45	6.20	6.50	6.45	6.60	5.90
	Water content(%)	0.11	0.07	0.12	0.11	0.13	0.10
	Whiteness	63.5	59.0	63.0	63.0	62.7	81.7
	Blaine value (cm^2/g)	3820	2010	6500	4400	9500	8546
	Bulk specific gravity (loose)	0.80	1.03	0.62	0.69	0.41	0.76
	45 μm residue (%)	2.0	3.4	tr	tr	tr	0.6
Average particle diameter(μm)	14.0	30.0	6.0	10.0	4.5	9.7	

Grain distribution (typical values)

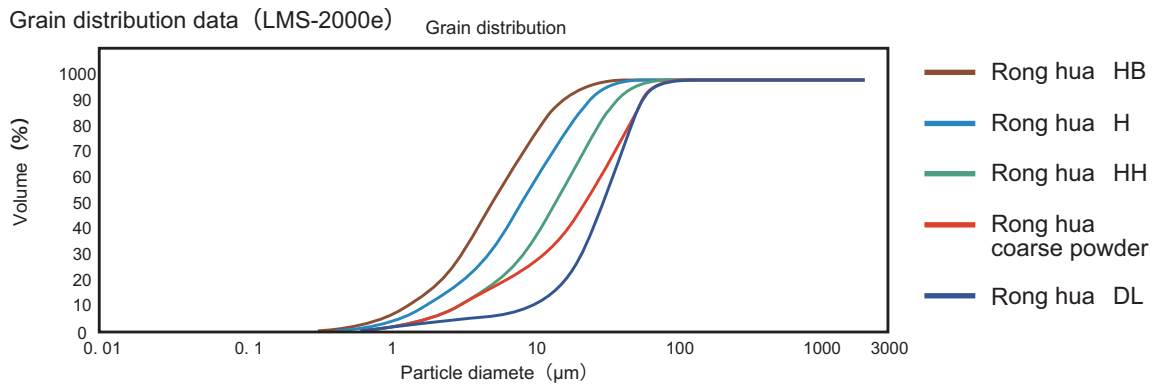
Grain distribution data (LMS-2000e)



Properties of China-Sourced Powder Products (typical values)

Product name		Rong hua coarse powder	Rong hua DL	Rong hua H	Rong hua HH	Rong hua HB
Grade		Ordinary	DL	Fine powder	Fine powder	Fine powder
Chemical composition (%)	Ig.loss	0.09	0.07	0.12	0.14	0.16
	SiO ₂	98.75	98.79	98.68	98.50	98.22
	Al ₂ O ₃	0.73	0.74	0.77	0.81	0.96
	Fe ₂ O ₃	0.20	0.15	0.14	0.24	0.38
	CaO	0.03	0.03	0.03	0.03	0.04
	MgO	0.04	0.05	0.06	0.06	0.03
	K ₂ O	0.08	0.09	0.13	0.16	0.13
	Na ₂ O	0.03	0.03	0.04	0.01	tr
Physical properties	TiO ₂	0.04	0.04	0.02	0.03	0.04
	pH	6.80	6.75	6.90	6.90	7.10
	Water content(%)	0.05	0.05	0.07	0.08	0.10
	Whiteness	77.0	78.0	77.3	73.0	74.0
	Blaine value (cm ² /g)	3400	1900	6000	5500	9500
	Bulk specific gravity (loose)	0.85	1.00	0.50	0.60	0.39
	45μmresidue (%)	2.5	2.0	tr	tr	tr
Average particle diameter(μm)	23.0	30.0	8.0	10.5	5.0	

Grain distribution (typical values)



Applications

Construction materials, agrochemical carriers, resins, coatings

Delivery formats

- Bulk carriers : Loose
- Flexible containers : 1,000kg
- Paper bags : 20kg, 25kg