

Ball Clay

Item	Product Description
SK-80	Low temperature washed kaolin with low water absorption (~3%) after firing at 1200 degree, and has whiteness around 80. The special phenomenon of SK-80 is that it has very high dry strength (> 60kgf/cm ²) and high whiteness (Fe ₂ O ₃ <0.4%) comparing with other washed ball clay. It can be applied in ultra white porcelain tile using (5-10%) to enhance the dry strength around 15%-30% of body, increase the whiteness around 1-2 degree, and reducing the using amount of Zr-silicate, which means SK-80 can reduce the material cost.
WB-01	White Ball clay with whiteness around 78 and high plasticity. Suggestion of using amount: 5%-10%.
HB-2	Washed Ball clay with high plasticity. Suggestion of using amount: 1-3%.

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Data Sheet

	Typical Data	SK-80	WB-01	HB-2
Chemical Analysis	SiO ₂ (%)	53.79	52.60	52.87
	Al ₂ O ₃ (%)	31.72	32.60	30.49
	K ₂ O (%)	1.70	0.63	0.75
	Na ₂ O (%)	0.20	0.21	0.26
	MgO (%)	0.74	0.12	0.09
	CaO (%)	0.56	0.30	0.10
	Fe ₂ O ₃ (%)	0.33	0.45	1.22
	TiO ₂ (%)	0.01	0.20	0.29
	Igloss(%)	10.60	12.80	13.67
Particle Size Distribution	>46μm	0.1	4.4	3.1
	<23μm	94.9	83.4	86.3
	<11μm	77.2	59.6	62.1
	<6μm	56.8	41.1	42.7
	<3μm	25.2	24.2	25.1
	<1μm	3.7	4.1	5.2
Dry Strength (dried at 150°C)	(Kgf/cm ²)	60.0	55.0	70.0
	p.s.i	852.0	781.0	994.0
Fired Proprties at 1090°C	Water Absorption(±1%)	2.5	8.7	7.6
	Brightness(±1%)	81.0	71.0	47.0
	Contraction(±1%)	10.3	8.1	9.0
Fired Proprties at 1200°C	Water Absorption(±1%)	2.5	6.3	5.5
	Brightness(±1%)	81.0	78.0	45.0
	Contraction(±1%)	10.1	9.5	9.4
Packing	Bulk	-	-	-
	Mt Bag	⊙	⊙	⊙
	50KG Bag	⊙	⊙	⊙

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