

Primary Kaolin

What is Primary Kaolin?

Base rock is transformed into kaolin mineral by the effects of hydrothermal action and weathering. It typically develops as a crystal, and is a kaolin mineral with very few impurities.

Product list

■Water washed products

Product name		Eckalite No. 1	NZ Kaolin	China Clay SSP	China Clay SP	Remblend	Kelnic
Main applications		Refractories	Ceramics	Ceramics	Ceramics	Sanitary ware	Sanitary ware
Region of origin		Australia	New Zealand	England	England	England	England
Chemical analysis value (%)	Igloss	14.0	13.9	12.8	12.5	12.0	11.6
	SiO ₂	46.0	49.5	48.0	48.0	48.0	48.0
	Al ₂ O ₃	38.0	36.1	37.0	36.5	36.5	36.5
	Fe ₂ O ₃	0.6	0.3	0.4	0.7	1.0	1.0
	CaO	0.1	0.01 \geq	0.1	0.1	0.1	0.1
	MgO	0.1	0.02 \geq	0.3	0.3	0.3	0.3
	Na ₂ O	0.1	0.03 \geq	0.2	0.1	0.1	0.2
	K ₂ O	0.1	0.01 \geq	1.2	1.7	2.0	2.3
	TiO ₂	0.1	0.07	1.1	0.0	0.1	0.1
Grain distribution (μ)	+53 μ m	0.05	0.1	0.05	0.04	0.3	1.0
	-10 μ m	1.0	—	—	—	—	—
	-2 μ m	87.0	98.0	85.0	70.0	39.0	28.0
Firing shrinkage (%)	1240°C	—	—	13.0	12.5	10.5	9.5
Characteristics		High crystallinity	Fine particles with high firing whiteness and translucence	Even better whiteness than SP (improved SP version)	High plasticity and moldability	Excellent adhesion and optimal grain distribution	Excellent adhesion and optimal grain distribution

■Rude ore products

Product name		TH Dickite A Grade	TH Dickite B Grade
Main applications		Ceramics	
Region of origin		China	
Chemical analysis value (%)	Igloss	11.40	10.84
	SiO ₂	52.99	58.21
	Al ₂ O ₃	34.09	30.60
	Fe ₂ O ₃	0.33	0.35
	CaO	0.09	0.10
	MgO	0.05	0.08
	Na ₂ O	0.05	0.06
	K ₂ O	0.80	0.80
	TiO ₂	0.20	0.18

Please inquire about the granularity to match the application, from coarse particles to fine powders.