

T I L E S - KAOLINS AND BALL CLAYS

PRODUCT CHARACTERISTICS	KAOLIN						BALL CLAY			
	B0 EXTRA	B0 GLAZE	B0	B1	RK-K	RK-B	BC1	BC3	BC4	
CHEMICAL CONTENT, %										
SiO2	49.00+/-2.00	51.00+/-2.00	51.00+/-2.00	51.00+/-2.00	88.88	90.31	51.26	60.9	63.91	
Al2O3	36.5+/-0.50	34.00+/-0.50	33.50+/-1.50	33.50+/-1.50	7.84	6.22	29.17	22.89	21.44	
Fe2O3	0.75+/-0.05	0.65+/-0.05	0.80+/-0.10	1.00+/-0.10	0.25	0.30	2.66	2.33	1.76	
TiO2	0.30+/-0.05	0.25+/-0.05	0.25+/-0.05	0.30+/-0.05	0.16	0.14	0.64	0.88	0.85	
CaO	0.15+/-0.05	0.20+/-0.05	0.15+/-0.05	0.15+/-0.05	0.04	0.06	0.95	1.04	1.07	
MgO	0.25+/-0.05	0.25+/-0.05	0.25+/-0.05	0.25+/-0.05	0.10	0.08	0.71	0.82	0.65	
Na2O	0.15+/-0.05	0.15+/-0.05	0.15+/-0.05	0.15+/-0.05	0.10	0.10	0.33	0.34	0.30	
K2O	0.60+/-0.20	1.20+/-0.20	1.20+/-0.20	1.20+/-0.20	0.22	0.28	3.57	3.95	3.52	
L.O.I.	12.00+/-0.60	12.00+/-0.60	12.00+/-0.60	11.9+/-0.60	2.50	2.50	10.8	6.78	6.45	
PARTICLE SIZE, %										
Residue on sieve, %										
>2,00 mm					3.00	3.00				
< 0,63 mm					97.02	97.02				
< 0,16 mm					47.26	47.26				
< 0,01 mm					18.70	18.70				
Dispersion analysis of the clay fraction, %										
> 56 microns	max.0.10	max.0.05	max.0.05	max.0.20			1.57	3.50	7.76	
> 45 microns							1.65	4.00	8.78	
> 10 microns	max. 2.0	max.4.0	max.4.0	max.5.0						
< 10 microns							97.1	86.6	84.00	
< 5 microns	90.0+/-3.0	87.0+/-3.00	87.0+/-3.00	85.0+/-3.00			94.7	75.8	73.7	
< 2 microns	67.0+/-3.0	68.0+/-3.00	68.0+/-3.00	66.0+/-3.00			82.00	56.2	53.7	
WHITENESS, %										
1180°C	89.0+/-1.5	89.0+/-1.50	87+/-1.5	86+/-1.5						
LINEAR SHRINKAGE, %										
110°C	2.9+/-1.0	3.0+/-1.0	3.0+/-1.0	3.0+/-1.0			7.1	5.2	4.9	
1100°C							16.5	10.9	9.3	
1180°C	9.5+/-1.0	11.1+/-1.0	11.1+/-1.0	11.1+/-1.0						
WATER ABSORPTION, %										
110°C										
1100°C							0.7	3.5	7.5	
1180°C	22.0+/-1.0	20.0+/-1.0	20.0+/-1.0	20.0+/-1.0						
STRENGTH OF BENDING, kg/cm2										
110°C	min.7.5	min.10.5	min.10.5	min.11.0			79.5	49.9	61.41	
ORGANIC SUBSTANCES, %										
							6.7	5.2	2.8	
SPECIFIC SURFACE, g/cm²										
							30.00	19.00	18.00	
HUMIDITY, %										
	12.0+/-2.0	12.0+/-2.0	12.0+/-2.0	12.0+/-2.0	8.0+/-2.0	8.0+/-2.0	max. 20.0	max. 20.0	max. 20.0	
APPLICATION										
FLOOR TILE				V	V	V	V	V	V	
WALL TILE				V	V	V	V	V	V	
GRANITOGRESS				V	V	V				
GLAZES										
	V	V	V							
ANGOBES										
			V							