

SANITARYWARE - KAOLINS AND BALL CLAY

PRODUCT CHARACTERISTICS	KAOLIN			BALL CLAY
	K2	B0 glaze	B0 extra	BCL1
CHEMICAL CONTENT,%				
SiO ₂	51,00+/-2,00	51,00+/-2,00	49,00+/-2,00	63.3
Al ₂ O ₃	33,50+/-1,50	34,00+/-0,50	36,5+/-0,50	22.8
Fe ₂ O ₃	0,85+/-0,15	0,65+/-0,05	0,75+/-0,05	1.1
TiO ₂	0,45+/-0,05	0,25+/-0,05	0,30+/-0,05	1.7
CaO	0,15+/-0,05	0,20+/-0,05	0,15+/-0,05	0.2
MgO	0,25+/-0,05	0,25+/-0,05	0,25+/-0,05	0.4
Na ₂ O	0,15+/-0,05	0,15+/-0,05	0,15+/-0,05	0.1
K ₂ O	1,00+/-0,20	1,20+/-0,20	0,60+/-0,20	1.9
L.O.I.	11,90+/-0,60	12,00+/-0,60	12,00+/-0,60	7.6
PARTICLE SIZE, %				
> 56 microns	max.0,5	max.0,05	max.0,1	
> 10 microns	max.5,0	max.4,0	max.2,0	
< 10 microns				92.6
< 5 microns	85,0+/-3,0	87,0+/-3,00	90,0+/-3,0	88.7
< 2 microns	66,0+/-3,0	68,0+/-3,00	67,0+/-3,0	72.2
WHITENESS, %				
1200°C	88,4+/-1,5	89,7+/-1,5	90,4+/-1,5	
LINEAR SHRINKAGE,%				
110°C	2,9+/-1,0	3,0+/-1,0	2,9+/-1,0	
1200°C	12,8+/-1,0	12,0+/-1,0	11,2+/-1,0	
WATER ABSORPTION, %				
1200°C	14,5+/-1,0	19,0+/-1,0	17,0+/-1,0	
STRENGTH OF BENDING, kg/cm²	min. 8,0	min. 10,5	min. 7,5	53.0
CASTING DATA				
maximum concentration for 5 pS viscosity,%	66,0+/-2,0	63,0+/-2,0	66,0+/-2,0	60
optimum amount of peptizer 5 pS,%	0,7+/-0,1	0,8+/-0,10	0,7+/-0,1	0.3
speed of casting, mm ² /min	0,6-0,8	0,8-1,0		
HUMIDITY, %	12,0+/-2,0	12,0+/-2,0	12,0+/-2,0	20
APPLICATION				
VC	V			V
FC	V			V
FFC	V			V
GLAZES	V	V	V	