



Kaolin Standard-Porcelain Chemical Analysis

Kaolin	Standard Porcelain
SiO ₂	48.5
Al ₂ O ₃	36.5
Fe ₂ O ₃	0.68
TiO ₂	0.02
Ca O	0.07
Mg O	0.30
K ₂ O	1.65
Na ₂ O	0.10
Loss on ignition	12.5
Mineralogical Composition	
kaolinite	87
Miraculous material	8
Feldspar	2
Other minerals	3
Particle Size Distribution	
>53	0.04
>8	4
<2	70
Modulus of Rupture	
At 80% relative humidity	1.4 - 200
Dried at 110°C	3.2 - 450
Casting Date	
Casting concentration	62.0
Deflocculating demand	0.55
Casting rate	0.20
Fired properties at 1180°C	
Water absorption	11.5
Brightness	89.0
Contraction	9.5
Fired Properties at 1280°C	
Water absorption	6.5
Brightness	87.0
Contraction	12.5