



Franz-Dieter Bley
Vertrieblungen und Vertrieb
für die Keramikkindustrie

Premium

Premium is a hydrated aluminium silicate which has been specially prepared by a unique process to accentuate such features as high brightness and fine particle size.

PRODUCT SPECIFICATION

VALUE

Typical Chemical analysis

Loss on ignition (%)	13,8
SiO ₂	49,5
Al ₂ O ₃	35,5
Fe ₂ O ₃	0,29
TiO ₂	0,09
CaO	Trace
MgO	Trace
K ₂ O	Trace
Na ₂ O	Trace

Grit on 240 mesh BSS screen for dispersed solution (%) less than 0,1

CR300 using D₆₅ light source brightness L* 98,9

pH (aqueous slurry at 20% solids) 3,5 - 4,5

Specific gravity (g/cm³) 2,55

Fluoride ion as F⁻ (B.C.R.A.) less than 0,01%

Cation exchange capacity approx. 10 milli equivalents 100gms of clay

Surface area (m²/gm) approx. 20

Dispersibility For ceramic applications clay must be ball milled or blunged under high shear

Moisture content, nominal (%) 3

Modulus of rupture (dried at 110°C) 2,9
MN/m² (B.C.R.A.)

Linear shrinkage (%)
dried at 110°C 3,8
fired at 1300°C 10,9

Refractoriness (P.C.E) Orton cone 33 - 34
(1743 - 1763°C)

Form of delivery and Packing Hammer milled powder in
30kg multiwall paper bags