

Primary Function of Common Ceramic Materials for use in:

CLAY BODIES and GLAZES

CERAMIC MATERIAL	GLAZE FUNCTION	CLAY BODY FUNCTION
Albany Slip Clay	Glaze Core	Colorant
A.P. Green Clay	Texture (ST)	Open Body / Texture / Core (ST)
Ball Clay	Alumina Opacity	Plasticity
Barnard Clay	Glaze Core / Color (ST, P)	Color
Bone Ash	Opacifier	Melter (4-6)
Borax	Melter (5-6, E) / Glassmaker / Carbon Trap (ST, P)	Melter (4-6, E)
Boric Acid	Melter (5-6, E) / Glassmaker	Melter (4-6, E)
Boron Frits	Glaze Core (5-6, E) / Melter / Colemanite (s) / Gerstley Borate (s)	Melter (4-6, E)
Colemanite	Glaze Core (5-6, E) / Melter / Gerstley Borate (s) / Boron Frits (s)	Melter (4-6, E)
Cornwall Stone	Glaze Core (ST, P) (Low Melter, High SiO ₂)	Melter (P)
Dolomite	Melter (ST) / Opacifier / Whiting (s)	Melter (ST)
EPK Kaolin	Alumina / Opacity (ST, P)	Core (P, W)
Silica (Flint)	Glassmaker	Glassmaker / Glaze Fit
Fluorospars	Melter	
Gerstley Borate	Glaze Core (4-6, E) / Melter / Colemanite (s) / Boron Frits (s)	Melter (4-6, E)
Gold Art Clay		Core (ST)
Kentucky Stone		Core (ST)
Lepidolite	Lithium Glaze Core	Melter (FL)
Magnesium Carbonate	Melter (ST, P, W) / Opacifier	Melter
Nepheline Syenite	Glaze Core (Low SiO ₂ , High Na ₂ O, High Al ₂ O ₃)	
Ocmulgee Red Clay	Color (ST)	Melter / Color / Core (4-6, E)
Petalite	Lithium Glaze Core (9-10, ST)	Melter (FL)
POTASH SPARS	Glaze Core (ST, P)	Melter (ST, P)
Custer	G-200, K200 (s)	
G-200	Custer, K200 (s)	
K200	Custer, G-200 (s)	
Red Art	Color	Melter / Color / Core (E)
Rotten Stone	Glaze Core (ST, P)	Melter / Color (ST)
SODA SPARS	Glaze Core (ST, P)	Melter (ST, P)
Kona F-4	C-6 (s)	
C-6	Kona F-4 (s)	
Spodumene	Lithium Glaze Core (ST, P)	Melter (FL)
Talc	Melter / Opacifier	Melter (4-6, E, W)
Volcanic Ash	Glaze Core (ST, P) / Cornwall Stone (s)	
Whiting	Melter (ST, P) / Opacifier / Wollastonite (s) / Dolomite (s)	Melter (ST)
Wollastonite	Melter (ST, P) / Opacifier / Whiting / Dolomite (s)	Melter (ST, P)
Wood Ash	Glaze Core (ST, P) / Melter (ST, P) / Colorant	
Zinc	Melter (ST, P) / Opacifier (ST, P)	

KEY	(s) = substitute option	(E) = earthenware clay body	(FL) = flamework clay body, cone 9-10
	(ST) = stoneware clay body	(P) = porcelain clay body	(W) = white burning clay bodies, cone 4-10