

## FEATURES & BENEFITS

The PRESTIGE® line of kaolin clays is designed to produce increased strength and plasticity in plastic forming and extrusion operations. PRESTIGE clays are easily dispersed in water for direct slip make down by blunging. They are ideal for blunging to slurries, filter pressing and extrusion, mulling prior to extrusion and spray drying. In all applications, the rapid pick up and equilibration of process fluids with these clays help minimize batching and blending time.

A complete range of PRESTIGE clay blends is available to achieve diverse formulation and processing objectives. Excellent suspension properties and rheological stability, compatibility with the complete range of fluxes and non-plastics, and white fired color affect both product and productivity. Their plastic properties over a wide moisture range produce bodies which can withstand the rigors of automated processing and handling without cracking or deformation. Predictable formed properties, including moisture retention, firmness and strength, make PRESTIGE valuable components in body formulations ranging from decorative and table wares to electrical porcelain.

The PRESTIGE series of kaolin clays are mined, processed and sized under Covia QIP<sup>SM</sup> statistical quality assurance programs. The result is consistent mineralogy, chemical and physical properties that ensure predictable results with today's demanding ceramic processing techniques.

## CHEMICAL ANALYSIS

*Typical Mean Values. These Do Not Represent A Specification.*

	Typical Mean Percent by Weight on Oxide Basis		
	D-6	D-10	SK-75
Silicon Dioxide (SiO <sub>2</sub> )	45.70	46.30	45.50
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	38.30	37.00	38.00
Titanium Dioxide (TiO <sub>2</sub> )	1.48	1.38	1.65
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	0.64	0.58	0.90
Calcium Oxide (CaO)	0.32	0.28	0.25
Magnesium Oxide (MgO)	0.07	0.31	0.06
Potassium Oxide (K <sub>2</sub> O)	0.22	0.18	0.06
Sodium Oxide (Na <sub>2</sub> O)	0.01	0.01	0.04
Loss on Ignition (LOI)	13.50	13.80	13.40

## PHYSICAL ANALYSIS

*Typical Mean Values. These Do Not Represent A Specification.*

PRESTIGE® Plastic Forming Clays	D-6	D-10	SK-75
M.B.I. (meq/100g)	7.0	11.0	7.0
SSA m <sup>2</sup> /g	17.0	19.6	6.5
pH @10% Solids	5.0-8.0	6.0	6.6
Dry M.O.R. @230°F (lbf/in <sup>2</sup> )	650	1000	250

## PARTICLE SIZE ANALYSIS

Typical Mean Values. These Do Not Represent A Specification.

	Mesh Size	PRESTIGE® Grades		
	Microns	D-6	D-10	SK-75
% Finer	<20μ	98	98	99
	< 10μ	94	94	96
	< 5μ	84	82	92
	< 2μ	63	61	80
	< 1μ	49	47	68
	< 0.5μ	32	33	52

## SHIPPING/ORDERING INFORMATION

- Shipping Point: McIntyre, GA
- Originating Rail Carrier: Norfolk Southern
- Availability: Bulk, IBC, 50 lb Paper Bag  
Truck and Rail

### CUSTOMER SERVICE

US & Canada: 1-800-243-9004

Fax: 1-800-243-9005

Worldwide: 1-203-442-2500

Fax: 1-203-972-1378

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GRADE NUMBERS INDICATE RELATIVE VALUES OR RESULTS. THEY ARE NOT A SPECIFICATION OR WARRANTY OF PERFORMANCE.

HEALTH HAZARD WARNING: Prolonged inhalation of dust associated with the materials described in this data sheet can cause delayed lung injury including Silicosis, a progressive, disabling and sometimes fatal lung disease. IARC and NTP have determined that crystalline silica can cause lung cancer in humans. Risk of injury is dependent on the duration and level of exposure. Follow OSHA or other relevant safety and health standards for the form of crystalline silica called Quartz. Current safety data sheet, containing safety information, is available and should be consulted before usage.

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Silica/Silica Containing

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