

## FEATURES & BENEFITS

The PREMIERE® line of kaolin clays is designed to maximize performance in pressed and extruded ceramic processes. A composition of fine and medium grained kaolinite, these clays will produce excellent plasticity characteristics over a wide moisture range. Their consistency also provides necessary control over thermal expansion, dimensional accuracy and fired color in structural and decorative ceramic wares. Suitable for either fast or conventional firing schedules, these kaolins are equally successful in glaze batches in the role of rheological controllers and sources of alumina.

These materials are excellent in operations where fired color and plastic properties need to be optimized. The PREMIERE line is ideally suited for ceramic processes which require excellent plasticity, including dinnerware, and floor, wall, and porcelain tile. An absence of oxidation sources also means minimal disturbance to glazed surfaces, in either single or twice fired processing.

All PREMIERE grades are mined, processed and sized under Covia QIP<sup>SM</sup> statistical quality assurance programs. The result is consistent chemistry and uniform particle size distribution for a controlled casting rate and predictable firing performance.

## CHEMICAL ANALYSIS

Typical Mean Values. These Do Not Represent A Specification.

	Typical Mean Percent By Weight On Oxide Basis			
	SP-100	D-6	D-10	SK-75
Silicon Dioxide (SiO <sub>2</sub> )	45.00	45.70	46.30	45.50
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	38.50	38.30	37.00	38.00
Titanium Dioxide (TiO <sub>2</sub> )	1.65	1.48	1.38	1.65
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	0.32	0.64	0.58	0.90
Calcium Oxide (CaO)	0.10	0.32	0.28	0.25
Magnesium Oxide (MgO)	0.13	0.07	0.31	0.06
Potassium Oxide (K <sub>2</sub> O)	0.10	0.22	0.18	0.20
Sodium Oxide (Na <sub>2</sub> O)	0.08	0.01	0.01	0.04
Loss on Ignition (LOI)	13.70	13.50	13.80	13.40

## PHYSICAL PROPERTIES

Typical Mean Values. These Do Not Represent A Specification.

PREMIERE® Pressing Clay	SP-100	D-6	D-10	SK-75
M.B.I. (meq/100g)	2.6	7.0	9.0	7.0
SSA m <sup>2</sup> /g	11.0	17.0	19.0	23.0
pH @10% Solids	5.0	6.2	6.0	6.5
M.O.R. (Dried @ 110°C)(lbf/in <sup>2</sup> )	150	450	700	250

## PARTICLE SIZE ANALYSIS

Typical Mean Values. These Do Not Represent A Specification.

	Microns	SP-100	D-6	D-10	SK-75
% Finer	< 20	97	98	98	99
	< 10	91	94	93	96
	< 5	80	82	83	92
	< 2	59	60	63	80
	< 1	43	46	49	68
	< 0.5	26	26	34	52

## SHIPPING/ORDERING INFORMATION

- Shipping Point: McIntyre, GA
- Originating Carrier: Norfolk Southern
- Availability: Bulk, 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 Warnings: 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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