

HYDROUS ALUMINUM SILICATES – KAOLIN CLAYS

TYPICAL PHYSICAL PROPERTIES

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	FINE PARTICLE SIZE						COARSE PARTICE SIZE		ULTRA FINE PARTICLE SIZE			
	No.10	Polyclay	No.17	No.60	No.20	Thermo- Glace H	Thermo- Glace +	No.40	No.98	No.28*	No.97	No.27*
pH	4.8	6.7	6.9	4.7	6.9	7.0	7.3	5.3	7.0		7.1	
Brightness, GE	87.0		90.0	86.0		88.0	87.0	85.0	90.0		87.0	
Brightness, ISO	86.0		89.0	85.0		87.0	86.0	84.0	89.0		86.0	
Particle Size Avg. Microns	0.35 to 0.65						1.0+	1.30	0.20 to 0.30			
+325 Mesh Residue	0.01						0.02	0.15	0.005			
% Free Moisture	1.0											
Bulking Value	0.0456 gal./lb. or 0.3805 litre/kg.											
Specific Gravity	2.63											
Refractive Index	1.56											

PACKAGING: Burgess Products are packaged in 50 lb. net weight multi-wall kraft bags or bulk bags.

HYDROUS CHEMICAL PROPERTIES

Ignition Loss %13.7 – 14.1
Silica %.....44.8 – 45.3
Alumina %37.5 – 39.7
Iron Oxide %Trace
Titanium Dioxide %.....1.35 – 2.27

* Spray dried versions for use in aqueous systems only.

The suggestions and data contained in this bulletin are based on data which are believed to be reliable. They are offered in good faith, to be applied according to the user's own best judgment. Since operating conditions in the processor's plant are beyond our control, Burgess Pigment Company cannot assume responsibility for any risks or liabilities which may result from the use of its products. Likewise, no liability is assumed for any claimed patent infringement occurring by reason of any method or manner of use, or any product made by a consumer. While the Burgess Pigment Company guarantees the quality of its products, it cannot give any warranty regarding the results obtained by the use thereof.

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APPLICATION INFORMATION

Burgess NO. 10 – fine particle size, medium brightness, excellent dispersion in water based, acid pH, alkyd or solvent based coatings and inks, electrodeposition body primers, as well as EIFS.

Burgess Polyclay – neutral pH version of **Burgess NO. 10**.

Burgess NO. 17 – fine particle size, high brightness, excellent dispersion in water based, alkyd or solvent coatings. Used extensively to extend TiO_2 in satin paints.

Burgess NO. 60 – fine particle size, medium brightness, acid pH, and excellent dispersion. Used in inks, adhesives and industrial finishes, electrostatic deposition body primers, as well as EIFS.

Burgess NO. 20 – neutral pH version of **Burgess NO. 60**. Hard clay useful in rubber compounds, as partitioning agent, industrial coatings, and concrete curing compounds.

Burgess NO. 40 – medium coarse particle size, lower brightness and excellent dispersion. Used in trade sales coatings and adhesives where greater economy is needed. Used extensively in fiberglass reinforced plastic where low oil demand is required.

Thermo-Glace H – delaminated medium fine particle size and good whiteness. Reduces mud-cracking in high build coating films, improves enamel holdout in primer applications and stain block, and is also used in vapor barrier coatings due to its high aspect ratio platelets.

Thermo-Glace + – high aspect ratio, delaminated kaolin used in polymers to enhance the physical properties. Replace talc and competitive kaolin in polypropylene and other applications while maintaining properties. Reinforce film and reduce permeability in primers and architectural coatings. Also, in primers it can enhance enamel holdout and improve stain blocking properties.

Burgess NO. 98 – ultrafine particle size, high brightness, excellent dispersion premium extender for TiO_2 in satin, semi-gloss and gloss water-based and solvent-based coatings where maintaining gloss, tint strength, and hide is critical. Useful as soft abrasive in polish applications. **Burgess NO. 28** – bead version of **Burgess NO. 98** intended for use in water based systems only.

Burgess NO. 97 – lower brightness version of **Burgess NO. 98**, ultrafine particle size, good brightness extender for TiO_2 in semi-gloss and satin paints & inks. **Burgess NO. 27** – bead version of **Burgess NO. 97** used in water based systems only.

OTHER HYDROUS CLAYS: A wide selection of different particle size, brightness, pH, and other physical properties, for use in paints & coatings, adhesives, sealants, caulks, inks, rubber and plastic applications where sheen and viscosity control, good stain removal, brushability, inertness, and low abrasiveness properties are desired. The platy particle shape offers ease of dispersion, imparts good suspension properties, and exhibits good enamel holdout properties for both architectural and industrial coatings.