

Sales Office  
P.O. Box 159  
High Hill, MO 63350  
Phone: (636) 585-2214  
FAX: (636) 585-2220



[www.christyco.com](http://www.christyco.com)

Plant  
833 Booneslick Rd  
High Hill, MO 63350  
Phone: (636) 585-2214  
FAX: (636) 585-2220

## PRODUCT TECHNICAL DATA

### Hawthorn Bond®

**Description:** A plastic fireclay exhibiting outstanding plasticity and workability.

#### Physical Properties

PCE	31-32			
Firing Temperature	1800°F	2000°F	2200°F	2400°F
Approximate Cone (Small)	08	04	4	9
Dry Shrinkage (%)	1.7	4.4	8.5	N/A
Fired Shrinkage (%)	4.2	7.9	11.4	11.7
Fired Color	Tan-Pink	Tan	Yellow	Gray-Yellow
LOI (%)	12.99	12.92	13.67	N/A

#### Chemical Analysis (Raw Basis)

SiO <sub>2</sub>	47.1 - 53.3%
Al <sub>2</sub> O <sub>3</sub>	30.3 - 32.1%
Fe <sub>2</sub> O <sub>3</sub>	1.3 - 1.7%
TiO <sub>2</sub>	1.7 - 2.2%
K <sub>2</sub> O	Trace - 1.0%
MgO	Trace- 0.4%
CaO	Trace - 0.5%
Na <sub>2</sub> O	Trace - 0.3%
P <sub>2</sub> O <sub>5</sub>	Trace - 0.3%
LOI	10.5 - 15.55%

#### Typical Screen Analysis

Retained On	20 Mesh	35 Mesh	40 Mesh	50 Mesh
US 20	16.7%	-	-	-
US 40	20.5%	13.9%	4.2%	-
US 50	-	-	-	1.7%
US 70	17.3%	22.9%	23.1%	10.6%
US 200	16.7%	23.0%	23.6%	28.4%
Retained: Pan	27.9%	40.2%	49.1%	59.3%

The above data are based on controlled testing. Individual test results may vary. These data are for informational purposes only, may not be used for specification purposes, and do not form the basis of any warranty. NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, ARE MADE REGARDING THE DATA OR PRODUCTS SHOWN ABOVE, AND ALL SUCH WARRANTIES ARE HEREBY DISCLAIMED.