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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 ₂	47.1 - 53.3%
Al ₂ O ₃	30.3 - 32.1%
Fe ₂ O ₃	1.3 - 1.7%
TiO ₂	1.7 - 2.2%
K ₂ O	Trace - 1.0%
MgO	Trace- 0.4%
CaO	Trace - 0.5%
Na ₂ O	Trace - 0.3%
P ₂ O ₅	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%

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