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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	1800F	2000F	2200F	2400F
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	0.6 - 1.0%
MgO	0.2 - 0.4%
CaO	0.3 - 0.5%
Na ₂ O	0.1 - 0.3%
P ₂ O ₅	0.1 - 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 data shown above is based on control test data. The results of individual tests may vary. Therefore, this data may not be used for specifications. NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OF MERCHANTABILITY ARE MADE REGARDING THE DATA SHOWN ABOVE.