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Insulating Fire Brick—Coarse

PA series coarse firebrick offers a lower cost alternative to traditional fine grained insulating firebrick. PA series brick is designed for applications where the lower densities or finer texture or traditional IFB is not required. PA series firebrick meet or exceed the specifications of ASTM C 155 for each listed grad. All PA series brick are manufactured in the USA.

PA 23 With its low reheat shrinkage, PA 23 brick is especially well suited for applications such as annealing and reheating furnaces.

PA 26 PA 26 blends excellent density, strength, and temperature stability with low thermal conductivity, making it ideal as back up insulation in high temperature reheat and forging furnaces. It has also been used successfully in many kiln applications.

Typical Data	PA 23	PA 26
ASTM Classification	23	26
Temperature Use Limit	2300°F	2600°F
Density lbs/ft ³ <i>ASTM C 134</i>	44	49
Modulus of Rupture <i>ASTM C 133</i>	115 lb/in ²	180 lb/in ²
Cold Crushing Strength <i>ASTM C 133</i>	140 lb/in ²	240 lb/in ²
Permanent Linear Change <i>ASTM C 210</i> <i>24 hrs at soaking temp</i>	0.0 @ 2250°F	-0.1 @ 2550°F
Reversible Linear Thermal Expansion @ 2000°F	0.6	0.6
Hot Load Strength <i>ASTM C 16</i> <i>10 psi load for 1-1/2 hours</i>	-0.5 @ 2000°F	0.2 @ 2200°F
Thermal Conductivity <i>ASTM C 182</i> <i>Btu-in/ft²,hr,°F</i>		
<i>500°F</i>	1.6	2.1
<i>1000°F</i>	2.0	2.4
<i>1500°F</i>	2.4	2.7
<i>2000°F</i>	2.6	2.9
Chemical Analysis		
Al ₂ O ₃	41.6	39.6
SiO ₂	54.5	57.0
Fe ₂ O ₃	0.9	0.8
TiO ₂	1.6	1.2
CaO	0.1	0.1
MgO	0.1	0.1
Alkalies	1.2	1.2

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