



ALL-AMERICAN SUPPLY

*High-Tech Materials From The Outer Reaches
Of Space to the Depths of the Ocean*

Solar-Aero Space-Weapons-Nuclear
301 Eubank SE Albuquerque, NM 87123
(505) 299-7655 FX: (505)292-2495
Website: www.allamericansupply.com
Email: insulate@allamericansupply.com



FRANCE NON SPALL DENSE FIRE BRICK

SCOPE: A special high duty fireclay brick with a well balanced formulation to provide resistance to spalling, abrasion, and chemical attack. It will find use in furnace roofs and linings, boilers, incinerators, cement and lime kilns, reheat furnaces, and a wide variety of other applications.

PCE (Pyrometric Cone Equivalent): 31.5 to 32.5

Chemical Analysis (Wt.%- Calcined Basis)

SiO ₂	56.2
Al ₂ O ₃	38.8
TiO ₂	1.9
Fe ₂ O ₃	1.3
CaO	0.1
MgO	0.3
Alkalies	1.4

Physical Properties

	English Units		SI Units	
	Average	Standard Deviation	Average	Standard Deviation
Bulk Density	139 lbs/cuft	4.0	2230 kg/m ³	60
Apparent Porosity (%)	16.5	2.0		
Modulus of Rupture At 68°F (20°C)	945 psi	195	6.5 MPa	1.3
Crushing Strength At 68°F (20°C)	3500 – 5500 psi		24-38 MPa	
Linear Change(%)				
After 2910°F (1600°C) reheat		+2.5		
After 2460°F (1350°C) reheat		+0.1		
Hot Load Deformation (%)				
25 psi load at 2640°F (1450°C)		-3.8		

The data given above are average results of our common sized products and are subject to variation. One standard deviation is given when adequate data is available. These results should not be used for specification purposes. Manufactured by Vesuvius USA.