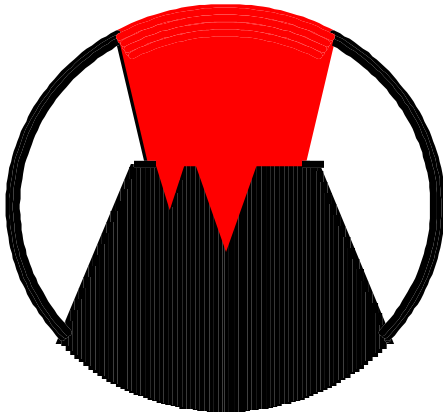


# AV-30 ALUMINA



## Composition

Alumina	Al <sub>2</sub> O <sub>3</sub>	95.50%
Silica	SiO <sub>2</sub>	2.90%
Magnesia	MgO	1.10%
Calcia	Ca O	0.28%
Sodium Oxide	Na <sub>2</sub> O	0.15%
Iron Oxide	Fe <sub>2</sub> O <sub>3</sub>	0.07%

## Physical Properties

Bulk Density	Open Porosity	Flextural Strength		Compressive Strength 20°C
		20°C	1000°C	
3.72 g/cm <sup>3</sup>	0%	345 Mpa	138 Mpa	2100 Mpa
232 #/ft <sup>3</sup>	0%	50 ksi	20 ksi	305 ksi

## Thermal Properties

Conductivity		Expansion Coefficient 20-1000°C	Max Use Temperature (no load)
20°C	800°C		
25 W/m K	5.7 W/m K	8.2x10 <sup>-6</sup> /°C	1700°C
174 BTU.in/ft <sup>2</sup> .hr.°F	40 BTU.in/ft <sup>2</sup> .hr.°F	4.6x10 <sup>-6</sup> /°F	3092°F

These values represent typical properties of standard materials. They should be used only for comparison and should not be used as a warranty.