

# 902 MACHINABLE ALUMINA SILICATE

## Super Machinability - Versatile - Low Cost

Rescor™ 902 Machinable Ceramic is a high purity, high temp. ceramic with excellent electrical and mechanical properties.

No more long lead times for custom made parts.

902 is a fine grained ceramic that is readily machinable on conventional shop equipment with standard cutting tools.

Can be turned, drilled, shaped, etc. to produce sharp, detailed parts with close tolerances.

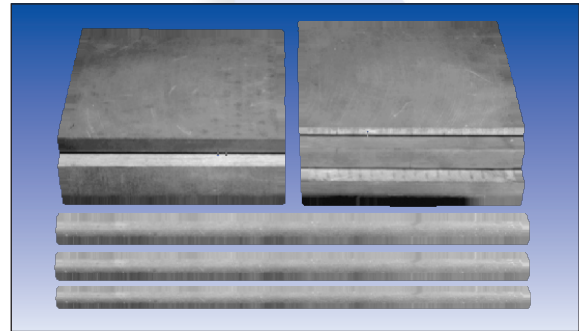
Provides excellent electronic, mechanical and thermal properties. It is inert to oxidizing and reducing atmospheres, resistant to most acids, chemicals, solvents and has excellent thermal shock resistance.

Does not contain organics to out-gas or contaminate critical vacuum or furnace atmospheres.

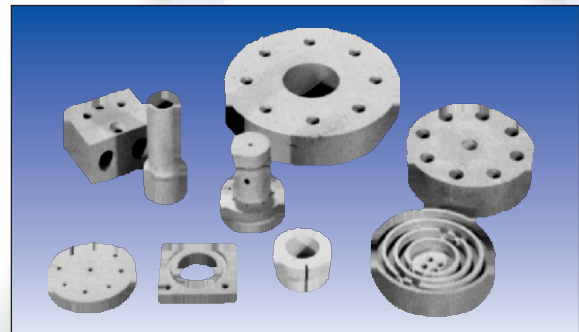
Rescor™ 902 is usable as supplied to 1100°F.

A simple heat treatment, after machining, at 1900°F, hardens and extends the temperature capability up to 2100°F.

Use 902 Alumina Silicate for rapid prototypes, fabrication of electrical insulators, furnace components, brazing, soldering, welding fixtures, thick and thin film applications, R. F. heating fixtures, prototype ceramic components, etc.



**Stock Sizes Available For Fast Deliveries**



**Easily Machined to Highly Detailed Parts**

### Precision Components - Tooling - Fixturing

Melting point (°F)	3200	Dielectric Strength (volts/mil)	100
Continuous Service Temp. (°F)	2100	Volume Resistivity (ohm-cm)	10 <sup>14</sup>
Compression Strength (psi)	38,000	Loss Factor (@ 1 Mhz)	0.04
Flexural Strength (psi)	14,000	Dielectric Constant (@ 1 Mhz)	5.30
Thermal Expansion (x 10 <sup>-6</sup> /°F)	1.80	Density (lb./Ft <sup>3</sup> )	145
Thermal Conductivity (BTU in / Hr. °F ft. <sup>2</sup> )	9	Typical Tolerances	.0005" - 0.030"
		Properties are shown for Heat Treated 902	

Cat. No.	Plate Stock Sizes	Price
902-01.....	1/4" x 6" x 6"	89.49
902-01A.....	1/4" x 4" x 9.5"	97.03
902-3.....	1/2" x 4" x 9.5"	158.33
902-4.....	1/2" x 6" x 6"	152.00
902-6.....	3/4" x 4" x 9.5"	211.68
902-7.....	3/4" x 6" x 6"	202.96
902-9.....	1" x 4" x 9.5"	280.60
902-10.....	1" x 6" x 6"	264.23
902-12.....	2" x 4" x 9.5"	476.41
902-13.....	2" x 6" x 6"	479.54
902-22.....	1.5" x 6" x 6"	397.62
902-23.....	1.5" x 4" x 9.5"	389.86
902-25.....	1/4" x 9.5" x 9.5"	251.01
902-26.....	1/2" x 9.5" x 9.5"	426.53
902-27.....	1" x 9.5" x 9.5"	721.68

Cat. No.	Rod Stock Sizes	Price
902-14.....	1/4" x 6"	41.62
902-15.....	1/2" x 9.5"	87.95
902-16.....	3/4" x 9.5"	71.04
902-17.....	1" x 9.5"	132.95
902-18.....	1.5" x 9.5"	192.82
902-19.....	2" x 9.5"	298.62
902-19A.....	2.5" x 9.5"	443.21
902-20.....	3" x 9.5"	623.50
902-50.....	3.5" x 9.5"	905.80
902-24.....	4" x 9.5"	1,045.19
902Kit.....	Trial Kit	210.00

**Send in your Prints  
for Custom Machining Services**