

# 902 MACHINABLE ALUMINA SILICATE

## Super Machinability - Versatile - Low Cost

**RESCOR 902 MACHINABLE CERAMIC** is a high purity, high temperature ceramic with excellent electrical and mechanical properties.

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.

No more long lead times for custom made parts.

902 is the ideal, general purpose ceramic for use to 2100°F.

Provides excellent electronic, mechanical and thermal properties.

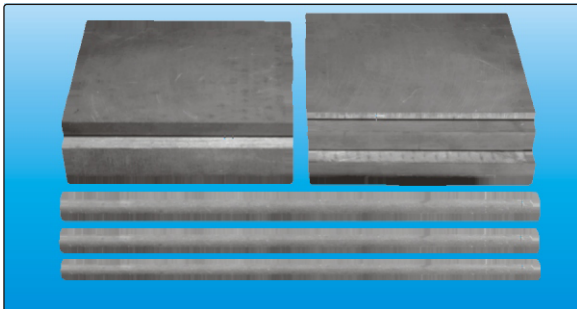
**RESCOR 902** is inert to oxidizing and reducing atmospheres. Resistant to most acids, chemicals, solvents and has excellent thermal shock resistance.

Contains no organics to out-gas or contaminate critical vacuum or furnace atmospheres.

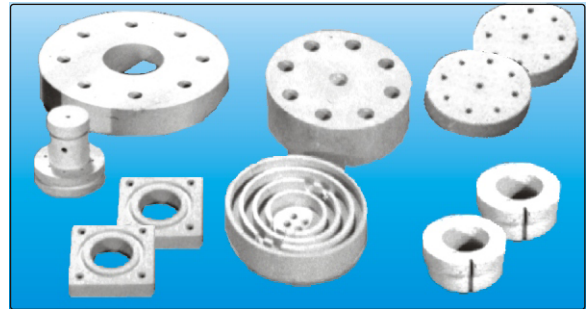
Usable as supplied to 1100°F. A simple heat treatment at 1900°F, after machining, hardens and extends the temperature capability up to 2100°F.

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

MACHINABLE CERAMICS



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)	5.3
Thermal Expansion (x 10 <sup>-6</sup> / °F)	1.8	Density (# / Ft <sup>3</sup> )	145
Thermal Conductivity (BTU in / Hr °F ft <sup>2</sup> )	9	Properties are shown for Heat Treated 902	
Machining Instructions see Page 72			

### Cat. No Plates Stock Sizes

902-1	1/4" x 6" x 6"
902-1A	1/4" x 4" x 11"
902-3	1/2" x 4" x 11"
902-4	1/2" x 6" x 6"
902-6	3/4" x 4" x 11"
902-7	3/4" x 6" x 6"
902-9	.1" x 4" x 11"
902-10	.1" x 6" x 6"
902-12	.2" x 4" x 11"
902-13	.2" x 6" x 6"
902-22	1.5" x 6" x 6"
902-23	1.5" x 4" x 11"
902-25	1/4" x 12" x 11"
902-26	1/2" x 12" x 11"
902-27	.1" x 12" x 11"

### Cat. No Rod Stock Sizes

902-14	1/4" x 6"
902-15	1/2" x 11"
902-16	3/4" x 11"
902-17	.1" x 11"
902-18	1.5" x 11"
902-19	.2" x 11"
902-19A	2.5" x 11"
902-20	.3" x 11"
902-50	3.5" x 11"
902-24	.4" x 11"

### 902-Kit TRIAL KIT

Typical Tolerances are -0.005" to +0.030"

**Send Prints For  
Custom Machining Services**



**COTRONICS** CORPORATION

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