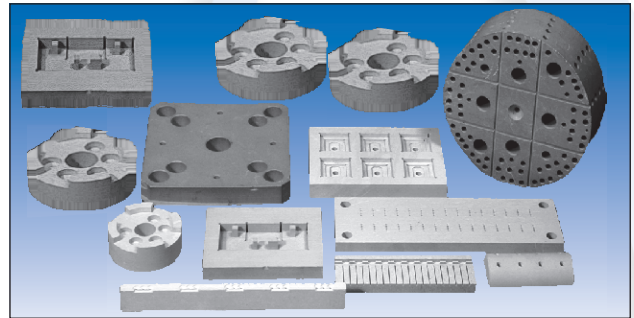
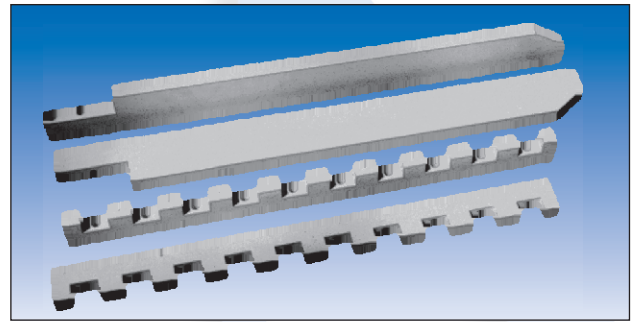


# 914 MACHINABLE GLASS CERAMICS

## Vacuum Tight, High Resistance and Impact Strength

### Precision Components Tooling - Fixturing

- Electrical Components
- Insulators
- R. F. Heating Fixtures
- Supports
- Brazing
- Soldering Fixtures
- Vacuum Components
- Prototype Hardware



A dense and vacuum tight, Glass Ceramic Composite that is readily machinable on conventional equipment with standard cutting tools.

**No post machining heat treatments are required.**

Rescor 914 Glass Ceramic is inert to oxidizing and reducing atmospheres and usable to 1000°F maximum. Offers excellent mechanical and electrical properties and has a dielectric strength of 480 volts/mil.

Can be metallized and soldered.

Rescor 914's low thermal conductivity, high impact and mechanical strength make it an ideal high temp material.

Ideal for vacuum feed-throughs and for all electrical and vacuum needs.

Rescor 914 is low in cost and can be used instead of Macor™ (glass ceramic) if temperatures do not exceed 1000°F.

Full machining instructions included.

New, high temperature grade, Rescor 914HT will provide service to 1100°F and is available upon request.

Rescor	914
Base	Glass Ceramic
Max Service Temp. °F	1000
Continuous use Tempo. °F	800
Density (gm/ cc)	2.6
Thermal Cond. (BTU in / Hr °F Ft <sup>2</sup> )	2.8
Thermal Expansion (x 10 <sup>-6</sup> / °F)	5.2
Compressive Strength (psi)	40,000
Flexural Strength (psi)	26,000
Dielectric Strength (volts / mil)	480
Volume Resistivity (ohm - cm)	10 <sup>14</sup>
Loss Factor (@ 1 Mhz)	0.01
Dielectric Constant (@ 1 Mhz)	7.5
Typical Tolerances Plates	+/- 0.015"
Typical Tolerances Rod	+/-0.005"

Cat. No	Stock Size
.914-1	1/16" x 12" x 18"
.914-4	1/8" x 9" x 12"
.914-5	1/8" x 12" x 18"
.914-9	1/4" x 9" x 12"
.914-10	1/4" x 12" x 18"
.914-15A	1/2" x 9" x 12"
.914-15	1/2" x 12" x 18"
.914-17A	3/4" x 9" x 12"
.914-17	3/4" x 12" x 18"

Cat. No	Stock Sizes
914-19A	.1" x 9" x 12"
914-19	.1" x 12" x 18"
914-22	1/4" x 12" rod
914-25	1/2" x 12" rod
914-28	3/4" x 12" rod
914-31	.1" x 12" rod
914-32	1-1/4" x 12" rod
914-TK	Trial Kit

Send Prints For Custom Machining Services