

# 914 MACHINABLE GLASS CERAMICS

## Vacuum Tight, High Resistance and Impact Strength

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.

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

A low cost, glass ceramic available in large sheets.

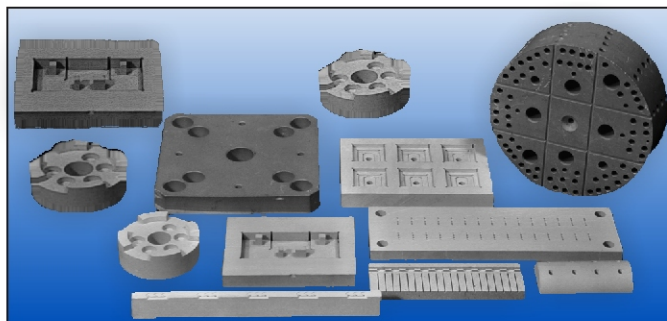
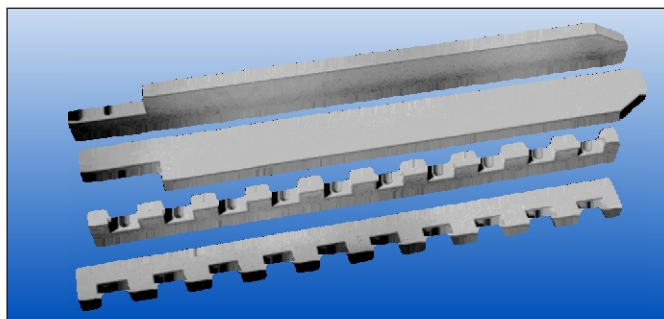
Ideal for vacuum feed-throughs and for all electrical and vacuum needs.

Can be metallized and soldered.

Rescor 914 can be used instead of MACOR™ (glass ceramic) to temperatures not exceeding 1000°F.

Full machining instructions included.

New improved 914 HT (high temperature) provides service to 1100°F is now available special request.



## Precision Components - Tooling - Fixturing

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

Use Temperature °F (Max.)	1000	Density (gm/cc)	2.6
Compressive Strength (psi)	40,000	Dielectric Strength (volt/ mil)	480
Flexural Strength (psi)	26,000	Resistance (ohm/cm)	10 <sup>14</sup>
Thermal Expansion (x 10 <sup>-6</sup> / °F)	5.2	Loss Factor (@ 1 Mhz)	0.01
Thermal Conductivity (BTU-in / Hr °F Ft <sup>2</sup> )	2.8	Dielectric Constant (@ 1 Mhz)	7.5

### Cat. No Plate Stock Sizes

914-1.....	1/16" x 12" x 18"
914-2.....	1/16" x 9" x 12"
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-TK.....	Trial Kit

### Cat. No Stock Sizes

914-17A.....	3/4" x 9" x 12"
914-17.....	3/4" x 12" x 18"
914-19A.....	1" x 9" x 12"
914-19.....	1" x 12" x 18"
914-22.....	1/4" x 18" rod
914-25.....	1/2" x 18" rod
914-28.....	3/4" x 18" rod
914-31.....	1" x 18" rod
914-32.....	1-1/4" x 18" rod



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