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™
Base

| Max Service Temp. (ºF) | 1000 |
| Continuous use Temp. (ºF) | 800 |
| Density (gm/cc) | 2.60 |
| Thermal Cond. (BTU in / Hr. Ft  ºF) | 2.80 |
| Thermal Expansion (x 10^-6/ ºF) | 5.20 |
| Compressive Strength (psi) | 40,000 |
| Flexural Strength (psi) | 26,000 |
| Dielectric Strength (volts / mil) | 480 |
| Volume Resistivity (ohm - cm) | 10^14 |
| Loss Factor (@ 1 Mhz) | 0.01 |
| Dielectric Constant (@ 1 Mhz) | 7.50 |
| Typical Tolerances Plates (in.) | +/- 0.015 |
| Typical Tolerances Rod (in.) | +/-0.005 |

914 Glass Ceramic

Cat. No. Stock Sizes
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”

Send Prints For Custom Machining Services

COTRONICS CORP.