

HIGH TEMPERATURE CERAMICS

1800°F Macor™ Glass Ceramic

A dense, vacuum tight, glass ceramic composite that is readily machinable and usable to 1800 °F.

Can be ground, sawed, turned, tapped, milled, drilled, etc. Will provide dense "0" porosity parts in house.

Has excellent electronic properties even at high frequencies.

Cat No. Plate Stock Sizes

915-1	1/4" x 3" x 3"
915-2	1/4" x 6" x 6"
915-3	1/2" x 3" x 3"
915-4	1/2" x 6" x 6"
915-5	3/4" x 3" x 3"
915-6	3/4" x 6" x 6"
915-7	1" x 3" x 3"
915-8	1" x 6" x 6"
915-17	1" x 1" x 3"
915-16	2" x 2" x 3"

Rescor	915	56L
Base	Macor™	Graphite
Max Service Temp.	1800°F	3000°C**
Density (gm/ cc)	2.52	1.63
Thermal Conductivity*	12	50+
Thermal Expansion ($\times 10^{-6}/^{\circ}\text{F}$)	5.2	3.1
Compressive Strength (psi)	50,000	16,000
Flex. Strength (psi)	15,000	6,500
Modules of Elasticity ($\times 10^6$)	9.3	1.6
Dielectric Strength (volts / mil)	1000	N/A
Volume Resistivity (ohm - cm)	10^{14}	N/A
Porosity (%)	0.0	10

* = BTU in / Hr °F Ft²
** Inert Atm.

Use in critical medical and high vacuum applications.

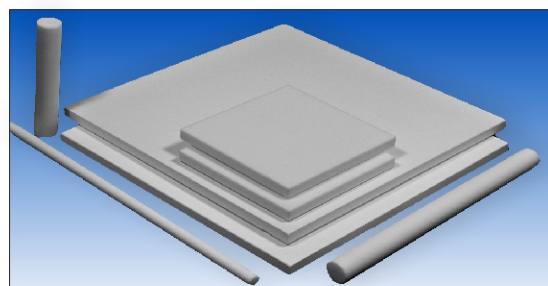
In stock for quick deliveries.

Full machining instructions are included. No post machining heat treatments required.

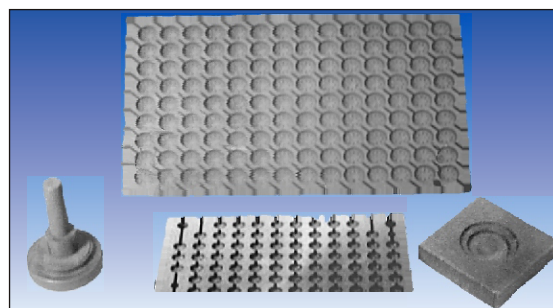
MACOR is a registered trade mark of Corning Glass.

Cat No. Rod Stock Sizes

915-9	1/4" x 12"
915-10	1/2" x 6"
915-11	1/2" x 12"
915-11A	3/4" x 12"
915-12	1" x 6"
915-13	1" x 12"
915-18	2" x 3"
TK.	TRIAL KIT



Rescor™ 915 Plates and Rods



Rescor™ 56L Graphite Precision Fixtures

3000°C Ultra Grade Graphite

Rescor L56 Graphite is a fine grade Graphite. It is easy to machine to close tolerances and will not warp, shrink or crack due to thermal stress. Will not wet by glass or metal oxides.

L56's high strength and unique grain structure make it ideal for all purposes.

Can be used to 600°F - 800°F in air atmospheres and up to 3000°C in inert atmospheres.

Cat. No. Stock Sizes

56L-1	1/4" x 6" x 6"
56L-2	1/2" x 6" x 6"
56L-3	1" x 6" x 6"
56L-4	1" x 12" x 12"

Applications include semi conductors, boats, fixtures, hot pressing dies, glass to metal, seals, heating elements, crucibles, casting precious metals, forming and handling glass, etc.

Custom sizes and quantity prices are available upon request. See page 34 for Resbond 931 Graphite Adhesive.

For machining instructions see page 73.

Typical tolerances are +/- 0.020".

Cat. No. Rod Stock Sizes

56L-5	1/4" x 12"
56L-6	1/2" x 12"
56L-7	1" x 12"
56L-8	2" x 12"



COTRONICS CORPORATION

Other Sizes, Quantity Prices Upon Request
Send Prints For Custom Machining Services

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