

# CHEMRAZ<sup>®</sup> 640 Minimal Particulation and Maximum Plasma Resistance

### HIGH TEMPERATURE MATERIAL

Chemraz® 640 perfluoroelastomer is specifically developed by Greene, Tweed to meet the rigorous demands of aggressive plasma systems. This product's unique formulation provides enhanced plasma resistance in oxygen and fluorine plasma processes resulting in minimal contamination, less downtime and higher wafer processing yields. Chemraz 640 is recommended for both static and dynamic, wet and dry wafer processing applications such as etch, remote plasma cleans, and deposition (CVD, HDPCVD, etc.) Chemraz 640 remains stable at service temperatures up to 554°F (290°C).

## FEATURES & BENEFITS

- · Exceptional plasma resistance in oxygen and fluorine environments
- · Minimal particulation and surface degradation
- · High purity, very low metallic ion content
- Extended performance and added reliability in wet and dry applications

# **APPLICATIONS**

• Valve seals

Lid Seals

- Endpoint windows
- Chamber seals
- · Gasket seals
- Isolator valve seals · Dispensing seals
  - · Regulator seals
- Slit valve seals

· Gas inlet/outlet seals

- · Filler seals



Modulus @ 100% Elongation

@ 25% Deflection, %

Service Temperature Range

Compression Set: 70 hours @ 204°C



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-4°F to 554°F

(-20°C to 290°C)

\* Note: Unless otherwise indicated, all tests are performed on (-214) O-rings.

#### Contact Us

Greene, Tweed Semiconductor Kulpsville, PA, USA

#### Our Distributor

**Banner Industries** High Purity Flow **Component Distribution**  Ð В

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Statements and recommendations in this publication are based on our experience and knowledge of typical applications of this product and shall not constitute a guarantee of performance nor modify or alter our standard warranty applicable to such products.

Prior to actual use it is recommended compatibility tests be run to determine suitability in a specific application. This is critical where failure could result in injury or damage A regular program of inspection and replacement should be implemented. Greene. Tweed technical personnel are available to help with a recommendation.

# Remote plasma cleans

RECOMMENDED PROCESS APPLICATIONS

- Dry ashing
- Oxidation (LPCVD)
- Wet etch (acid, base)
- Wet stripping (solvents)
- Wet cleaning (UPDI)
- Wet metal plating
- Electro chemical deposition

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