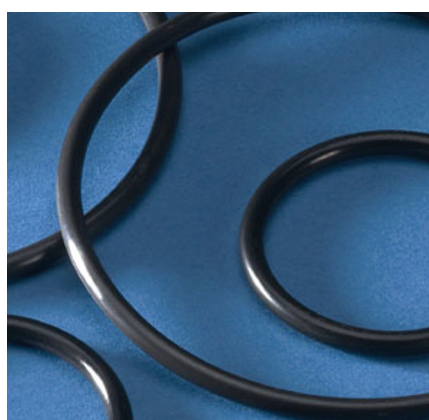


# Chemraz® 505 Universal Compound



## Features and Benefits

- Broad chemical compatibility for use with a wide range of harsh solutions
- Lower compression set provides better ability to handle temperature and pressure variations, shaft misalignment, and o-ring shrinkage
- Low-temperature capabilities (-22°F/-30°C)

## Sealing Solutions

Greene Tweed's Chemraz® 505, a perfluoroelastomer, provides a broad range of chemical resistance, and is available for use as o-rings, gaskets, and many other custom shapes. Because of its versatility, Chemraz® 505 is often used as a standard compound and can be found in a variety of applications, including acids, caustics, aldehydes, esters, ethers, aromatics, hot water, steam, amines, methanol, ketones, TBA, and MTBE. With a temperature range of -22°F to 446°F (-30°C to 230°C), Chemraz® 505 is ideal for processes in subzero temperatures and for use in multisubstance plants or in mixed media due to its broad chemical resistance.

## Applications

- Mechanical seals
- Valves
- Pump housings
- Reactors
- Compressors
- Sampling/metering equipment
- Mixers
- Controls/instrumentation
- Sprayers/dispensers
- Coupling

Typical Properties	
Physical Properties (ASTM Standard)	Typical
Color	Black
Specific Gravity (D297)	1.93
Hardness, Shore A, Points (D2240)	75
Mechanical (ASTM Standard)	
Compression Set, 70 Hours @ 400°F (204°C) @ 25% Deflection, % (D395)	25
Elongation @ Break, % (D1414)	140
Modulus @ 50% Elongation, psi (MPa) (D1414)	450 (3.1)
Modulus @ 100% Elongation, psi (MPa) (D1414)	1,150 (7.9)
Tensile Strength @ Break, psi (MPa) (D1414)	1,750 (12)
Thermal	
Service Temperature Range, °F (°C)	-22°F to 446°F (-30°C to 230°C)

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

## Contact Us

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Chemraz® 505 can be used in applications exposed to the following media:

<b>Hot water and steam</b>	Seawater, demineralized water, deionized water, boiler feedwater
<b>Amines</b>	Ethanol amine, ethylene diamine, butylamine, monomethyl amine
<b>Inorganic acids</b>	Sulphuric acid, nitric acid, hydrochloric acid, phosphoric acid, hydrofluoric acid
<b>Organic acids</b>	Formic acid, acetic acid, diacetic acid, benzoic acid, terephthalic acid
<b>Bases</b>	Sodium hydroxide, potassium hydroxide, ammonium hydroxide
<b>Aldehydes</b>	Formaldehyde, acetaldehyde, butyraldehyde, benzaldehyde
<b>Aromatic media</b>	Benzene, toluene, phenol, chlorobenzene, aniline, xylene, benzyl chloride
<b>Aliphatic media</b>	Methane, ethane, ethylene, acetylene
<b>Alcohols</b>	Methanol, ethanol, propanol, benzyl alcohol, ethylene glycol
<b>Ether</b>	Dimethyl ether, diethyl ether, ethylene oxide
<b>Esters</b>	Acetate, acrylate, phthalate
<b>Ketones</b>	Acetone, methylethylketone (MEK), diethylketone
<b>Solvents</b>	Methylene chloride, dimethyl formamide (DMF), tetrahydrofuran (THF), MTBE

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