

Dynarez™

Perfluoroelastomer O-Rings

HM-W

This product series is engineered with minimal to no fillers or cross-linking agents, ensuring optimal purity and exceptional cleanliness across the vast majority of plasma environments, which significantly enhances process yields. It is ideally suited for applications including Dry Etch, HDPCVD, PECVD, PVD, and Metal CVD, with a recommended maximum continuous operating temperature of up to 300°C.

Chemical Resistance

It offers superior chemical corrosion resistance, outperforming standard elastomeric materials.

Pressure Characteristics

The recommended maximum pressure is 5 MPa. However, this value may vary depending on specific operating conditions. Additionally, the use of back-up rings can enhance pressure resistance performance.

Recommended Applications

- ♦ High-purity chemical manufacturing equipment
- ♦ Wet cleaning equipment
- ♦ Wet process equipment
- ♦ High-purity chemical pumps, valves, and fittings
- ♦ Wet process pumps, valves, and piping components

Operating Temperature Range

The recommended temperature range is **0°C to 300°C**. Please note that continuous operation at the upper limit of this range may lead to **thermal hardening**, thereby shortening the product's service life. Conversely, at the lower limit of the temperature range, the elastomer's elasticity will **decrease**, which may result in a decline in **sealing performance**. Caution is advised when operating near these limits.

Typical Physical Properties	
Physical Testing	Max. Service Temperature
	Max. Service Temperature
	Tensile Strength (MPa)
	Elongation (%)
	100% Modulus (MPa)
Heat Resistance	Test Conditions
	Hardness Change
	Tensile Strength Change (%)
	Elongation Change (%)
Compression Set	Test Conditions
	Compression Set (%)

