



XYFLUOR® 870

Fluorinated Elastomer for Extended Service Life

SEALING SOLUTIONS

Xyfluor® 870, a highly fluorinated elastomer compound, provides excellent chemical compatibility over a wide range of temperatures from -76°F to 450°F (-60°C to 232°C). Recommended for applications demanding a combination of low-temperature properties and chemical resistance, Xyfluor 870 reduces overall cost, as compared to standard Fluoroelastomers, PTFE, and graphite, by extending equipment service life.

Xyfluor 870 parts can be made through high-volume injection-molding processing. Additionally, prototype parts are available for product testing.

FEATURES

- Dependable balance of physical properties at temperatures as low as -76°F (-60°C) and as high as 450°F (232°C)
- Minimal sealing force required for low-sealing pressure applications
- Excellent chemical resistance
- Resistance to hydrocarbon fuels and lubricants
- Good resistance to steam and water
- Less likely to be damaged during installation as compared to PTFE and graphite
- Better conformance to rougher surface finishes as compared to PTFE

APPLICATIONS

Xyfluor is ideal for use in demanding high-volume applications such as mechanical seals and gaskets in a range of metering pumps, valves and other high-performance equipment.



TYPICAL PROPERTIES*

| Physical Properties | ASTM Method | Typical Value |
|--|---------------|---------------------------------|
| Color | | Black |
| Hardness, Shore A, Points | D2240 | 70 |
| Mechanical | | |
| Compression Set, ** 70 Hours @ 392°F (200°C) @ 25% Deflection, % | D395 Method B | 20 |
| Elongation, % | D1414 | 160 |
| Modulus @ 100% Elongation, psi (MPa) | D1414 | 550 (3.8) |
| Tensile Strength, psi (MPa) | D1414 | 1,100 (7.6) |
| Thermal | | |
| Service Temperature Range, °F (°C) | | -76°F to 450°F (-60°C to 232°C) |

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

** Note: Data may vary depending on seal cross section.

| Media | Xyfluor | FKM | Silicone | Fluoro-silicone | EPDM |
|-----------------------|---------|-----|----------|-----------------|------|
| Acetic Acid | 1 | NR | 2/NR | 2/NR | 2 |
| Acetone | 1 | NR | 3 | NR | 1 |
| Amyl Alcohol | 1 | 1 | NR | 1/2 | 1 |
| Gasoline | 1/2 | 1 | NR | 1 | NR |
| MEK | 1/2 | NR | NR | NR | 1 |
| Toluene | 1 | 1 | NR | 2 | NR |
| Steam > 300°F (149°C) | 1 | NR | NR | NR | 2 |
| Water > 180°F (82°C) | 1 | 2 | 2 | 1 | 1 |

1 = Swell < 10% after exposure. Suitable.

2 = Swell > 10% & < 20% after exposure. Generally suitable.

3 = Swell > 20% & < 40% after exposure. May be suitable in some situations.

NR = Not recommended

xyfluor® 870 / product data

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Seal & Design Able Division

5533 Steeles Avenue West Unit 11
Toronto, Ontario M9L 1S7
Ph: (416) 741-0750
Gasket@AbleSealAndDesign.com



Seal & Design Corporate Headquarters

4015 Casilio Parkway
Clarence, NY 14031
Ph: (716) 759-2222
Info@SealAndDesign.com
www.SealAndDesign.com



Seal & Design Higbee Division

6741 Thompson Rd N
Syracuse, NY 13221
Ph: (315) 432-8021
Sales@Higbee-Inc.com