



Isolast® J9570

EXCEPTIONAL LOW TEMPERATURE PERFORMANCE IN HARSH ENVIRONMENTS



Isolast® J9570 is designed for applications where optimum low temperature flexibility and superior chemical resistance are required.

The Isolast® range of high specification perfluoroelastomer compounds has been developed to provide equipment manufacturers and end users with sealing solutions compatible with virtually all chemical media, over the widest temperature range possible. Unique Isolast® formulations give real benefits and costs advantages by providing optimum seal reliability and extending service life.

Isolast® J9570 delivers the same exceptional chemical resistance as our other market-leading perfluoroelastomer compounds along with outstanding sealing performance and excellent compression set resistance in extreme low temperature environments down to -40 °C/40 °F. It is an ideal choice for equipment stored and operated in subzero environments, such as couplings used for the safe transportation of aggressive chemicals and downstream refinery and petrochemical equipment, where reliability in extreme environments leads to extended service life.

Special Features

- Exceptional performance in low temperature environments
- Outstanding chemical resistance to a broad range of chemicals
- Low compression set and thermal shock resistance
- Excellent thermal stability up to +250 °C/+482 °C
- Good mechanical properties

Typical Applications

- Chemical transportation equipment (couplings etc.)
- Mechanical seals
- Pumps, valves and compressors
- Reliable alternative to other low-temperature elastomers offering chemical resistance

Isolast® J9570 is available in all standard international O-Ring sizes along with custom-engineered solutions and FlexiMold™ large diameter joint free seals.

MATERIAL DATASHEET FOR J9570

General data	J9570
Basic polymer	FFKM
Color	black
Hardness	70 Shore A
Temperature range	-35 °C to +250 °C -31 °F to +482 °F
Excursion temperature*	-40 °C to +275 °C -40 °F to +527 °F

Properties	Standard	Typical Results
Density	ISO 2781	1.90 g/cm ³ /0.069 lb/in ³
Tensile Strength	ISO 37	13.1 MPa/1900 psi
Modulus at 100% Elongation	ISO 37	4.4 MPa/638 psi
Elongation at Break	ISO 37	233%
Compression Set 72 h/+200 °C/+392 °F	ISO 815 Type B	20%
Low Temperature Behavior TR 10 point	ISO 2921	-30 °C/-22 °F
Fluid Immersion Testing: IRM 901 Oil 336 h/+150 °C/+302 °F Change in Volume	ISO 1817	+0.6%
Fluid Immersion Testing: Toluene 336 h/+23 °C/+73.4 °F Change in Volume	ISO 1817	+5.1%
Fluid Immersion Testing: Glacial Acetic Acid 336 h/+70 °C/+158 °F Change in Volume	ISO 1817	+7.9%
Fluid Immersion Testing: Methanol 336 h/+50 °C Change in Volume	ISO 2921	+2.6%

*Maximum and minimum temperatures have to be agreed according to specific application criteria



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