



Isolast® J9510

EXPLOSIVE DECOMPRESSION RESISTANCE WITH SUPERIOR HIGH PRESSURE PERFORMANCE



Isolast® J9510

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 cost advantages by providing optimum seal reliability and extending service life. Seal performance is further enhanced by superior hysteresis and compression set characteristics, which ensure high elasticity and dynamic recovery, minimizing risk of seal failure.

Isolast® J9510 material grade is a high-performance perfluoroelastomer formulated for chemical compatibility in the widest range of media, including amines, steam, oils, sour gases, completion and drilling fluids, bacteriacides, corrosion and scale inhibitors, offering a continuous operating temperature range of -10°C to +250°C/+14°F to 482°F. Specifically developed for the oil and gas processing industries, Isolast® J9510 exhibits superior highpressure sealing and unrivalled perfluoroelastomer performance for explosive decompression resistance (EDR), which is supported by independent institute approval to industry standard test protocols.

Features

- Almost universal chemical compatibility
- Thermal stability from -10°C to +250°C / +14°F to 482°F
- Unrivalled perfluoroelastomer performance forexplosion decompression resistance (EDR)
- Independent approval to Shell test protocol for EDR
- Superior high-pressure performance
- Excellent long-term compression set characteristics
- Available as standard and non-standard O-Rings, custom-molded designs and bonded products

Applications

- Oil and Gas industry, offshore and onshore
- Chemical processing
- Hydrocarbon processing
- Refining
- Downhole production
- Logging equipment
- Chemical injection

ISOLAST® J9510 COMPOUND DATA

Compound Number	J9510			
Elastomer base	DIN ISO 1629	FFKM		
Hardness	DIN 53 505	95 +/- 5 Shore A		
Color	black			
Specific gravity		DIN 53 479	g/cm ³	2.01 ± -0.03
Tensile strength		DIN 53 504	MPa N/mm ² / psi	22 / 3,191
Elongation at break		DIN 53 504	%	80
Compression set	72 h / 200°C / 392°F	DIN ISO 815 Type B	%	30
Service temperature			°C/°F	-10 / +250 +14/ +482

Material properties are average values resulting from tests, as specified, on standard test samples. The values are for guidance only. It is the responsibility of the user to test material for suitability within a specific application. Information is correct at time of publication.

Trelleborg Sealing Solutions offers to the semiconductor industry:

- Quality levels to ISO 9001-2000 including 100% inspection and zero defects
- Wash and pack to class 100 standards
- Leading-edge in-house polymer development test capability
- Sealing solutions using our extensive design facilities, including material specific non-linear Finite Element Analysis (FEA)
- Comprehensive technical support and after-sales service through the global Trelleborg Sealing Solutions network



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