



Isolast® J9512

SUPERIOR SEALING WITH RESISTANCE TO HIGH TEMPERATURE STEAM



Isolast® J9512

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® J9512 material grade is a high-performance perfluoroelastomer formulated for chemical compatibility in the widest range of media, including highly concentrated acids and bases, organic and inorganic oxides, amines and esters, offering a continuous operating temperature range of -5°C to +260°C / +23°F to +500°F.

Specifically developed for aggressive chemical processing applications, Isolast® J9512 exhibits excellent resistance to high-temperature steam and concentrated acids, achieving unrivalled results in comparative laboratory and field tests.

Features

- Almost universal chemical compatibility
- Thermal stability from -5°C to +260°C / +23°F to +500°F
- Unrivalled high-temperature steam resistance
- Resistant to concentrated acids at elevated temperatures
- Excellent long-term compression set characteristics
- Exceptional hysteresis properties
- Available as standard and non-standard O-Rings, custom-molded designs and bonded products

Applications

- Chemical processing
- Hydrocarbon processing
- Oil and Gas industry, offshore and onshore
- Diesel engines
- Power generation
- Metals extraction

ISOLAST® J9512 COMPOUND DATA

Compound Number	J9512			
Elastomer base	DIN ISO 1629	FFKM		
Hardness	DIN 53 505	75 +/- 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	12 / 1,741
Elongation at break		DIN 53 504	%	163
Compression set	72 h / 200°C / 392°F	DIN ISO 815 Type B	%	15
Service temperature			°C/°F	-5 / +260 +23 / +500

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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