



DONIFLEX® GR-SP

Soft sealing material reinforced with pegged steel core offers excellent thermal and stress resistance combined with very good adaptability to flange irregularities. Due to metal reinforcement it shows very good resistance to »blow-out«.

Basis

Aramid fibers, Graphite, NBR, Steel AISI 316

Color

Black

Surface treatment

Branded, without coating.

A special silver coloured non-stick top and bottom layer as well as other additional surface treatments (silicone, PTFE) are available on request.

Dimensions of standard Sheet

Sheet size:

1000x1000 mm

Thickness:

1.0 mm, 1.5 mm, 2.0 mm, 3.0 mm, 4.0 mm

Application

Doniflex® GR-SP is a suitable choice for application in automotive, petrochemical industry and for exhaust systems. Use for flanges, valves, pumps, heat exchangers, boilers, pressure vessels, compressors, heating systems etc.

Technical data (Typical values for a thickness of 2.0 mm)

Density	DIN 28090-2	g/cm ³	1.75 - 1.95
Compressibility	ASTM F 36/J	%	20 - 30
Recovery	ASTM F36/J	%	min 20
Stress Resistance (50MPa, T=300°C, 16h)	DIN 52913	MPa	min 38
Stress Resistance (50MPa, T=175°C, 16h)	DIN 52913	MPa	min 40
Immersion in Oil IRM 903, 5h, 150°C	ASTM F146		
thickness increase		%	max 5
weight increase		%	max 20
Immersion in ASTM Fuel B, 5h, 20°C	ASTM F146		
thickness increase		%	max 5
weight increase		%	max 20
Specific Leak Rate	DIN 3535/6	mg/(s·m)	max 1.5
Specific Leak Rate at 100°C	DIN 28090-2	mg/(s·m)	max 0.5
Specific Leak Rate at 300°C	DIN 28090-2	mg/(s·m)	max 0.1
Creep deformation – 50MPa			
 change in thickness at 300°C 		%	max 8
 change in thickness at 450°C 		%	max 10
Maximum continuous temperature		°C	450
Short-term peak temperature		°C	500

All information data are based on years of experience in production and operation of sealing elements. However, in view of the wide variety of possible installation and operating conditions one cannot draw final conclusions in all application cases regarding the behavior in gasket joint. The data may not, therefore, be used to support any warranty claims.

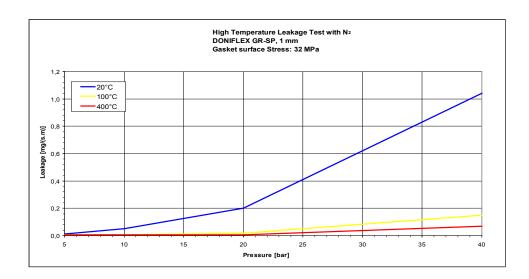
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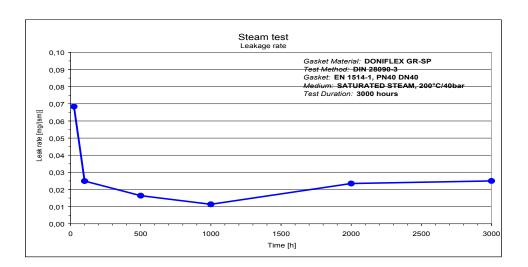
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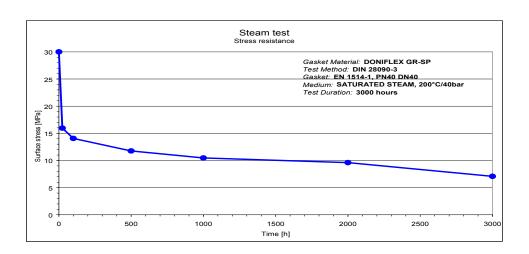
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MEDIA RESISTANCE

Media resistance chart serves only as a guideline for the selection of material for particular application. Due to the variety of assembly and operating conditions, the data may not be used to support any warranty claims.

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