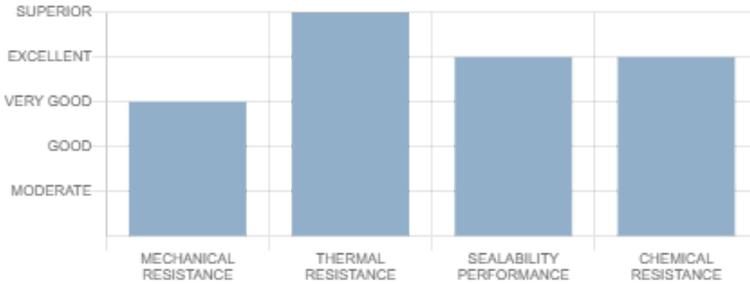




Devoid of any organic solvent, this graphite-based composite alloying aramid and special functional inorganics, is advanced heavy-duty material. It displays excellent physicochemical properties (thermal, chemical, stress resistance, etc.) with high compressibility and flexibility enabling it to conform to uneven surfaces. Steam supply, heating systems, and chemical industry are amongst its well-suited application. The version with a metal insert withstands higher pressures. Also, fitted with a highly performant anti-stick, gasket replacement is quite effortless following prolonged elevated temperature service.

PROPERTIES



APPROPRIATE INDUSTRIES & APPLICATIONS

- AUTOMOTIVE AND ENGINE BUILDING INDUSTRIES
- GENERAL PURPOSE
- HIGH-TEMPERATURE APP.
- PETROCHEMICAL INDUSTRY
- POWER PLANT
- VALVES
- CHEMICAL INDUSTRY
- HEATING SYSTEMS
- PAPER & CELLULOSE INDUSTRIES
- POTABLE WATER SUPPLY
- STEAM SUPPLY
- WATER SUPPLY

Composition	Graphite, aramid fibers, functional inorganic fillers, NBR binder; optionally available with expanded metal reinforcement (AISI 316L, 0.15 mm)
Color	Anthracite
Approvals and compliances	EC 1935/2004
Sheet dimensions	Size (mm): 1500 x 1480 2000 x 1480 Thickness (mm): 0.8 1.0 1.5 2.0 3.0 Rolls: 1480 mm x L (m) Thickness (mm): 0.8 1.0 1.5 2.0 Other sizes and thicknesses available on request
Tolerances	± 5 % on length and width On thickness up to 1.0 mm ± 0.1 mm On thickness above 1.0 mm ± 10 %
Surface finish	Standard: 4AS. Optional: IQ, graphite or PTFE

TECHNICAL DATA

Typical values for 2 mm thickness

Density	DIN 28090-2	g/cm ³	1.25
Compressibility	ASTM F36J	%	35
Recovery	ASTM F36J	%	25
Tensile strength	ASTM F152	MPa	
Longitudinal			5
Transversal			5
Stress resistance	DIN 52913		
50 MPa, 16 h, 175°C		MPa	42
50 MPa, 16 h, 300°C		MPa	37
Specific leak rate	DIN 3535-6	mg/(s·m)	0.05
Thickness increase	ASTM F146		
Oil IRM 903, 5 h, 150°C		%	3
ASTM Fuel B, 5 h, 23°C		%	3
Weight increase			
Oil IRM 903, 5 h, 150°C		%	30
ASTM Fuel B, 5 h, 23°C		%	25
Compression modulus	DIN 28090-2		
At room temperature: ϵ_{KSW}		%	30
At elevated temperature: $\epsilon_{WSW/200^\circ C}$		%	6
Creep relaxation	DIN 28090-2		
At room temperature: ϵ_{KRW}		%	3.5
At elevated temperature: $\epsilon_{VRW/200^\circ C}$		%	0.3
Creep deformation			
Change in thickness at 20°C, 50 MPa		%	30
Change in thickness at 300°C, 50 MPa		%	12
Change in thickness at 400°C, 50 MPa		%	15
Leachable chloride content	FSA NMG 202	ppm	<20
Leachable fluoride content	FSA NMG 203	ppm	<20

All information and data quoted are based upon decades of experience in the production and operation of sealing elements. This data may not be used to support any warranty claims. With its publication this latest edition supersedes all previous issues and is subject to change without further notice.

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