



BA-F R200

Gasket material with graphite filler and special metal reinforcement.
Suitable for highest pressure and high temperature applications.

Basis

Aramide fibers, graphite, NBR, expanded metal reinforcement

DIN 28091-2

FA-A1-St

Color

Black

Surface treatment

The standard version has non-stick top and bottom layer. Graphite or PTFE coating on request.

Dimensions of standard Sheet

Sheet size: 1000x1500 mm
1500x1500 mm

Thickness: 0.8mm, 1.0 mm, 1.5mm
(other thicknesses available on request)

Tolerances:

Thickness: <1 mm = ± 0.1 mm, ≥1 mm = ± 10%
Length: ± 50 mm
Width: ± 50 mm

Application

Top quality gasket material – specially reinforced - for use at very high pressures, high temperatures and surface stresses. Especially convenient for use at steam applications. Due to special metal reinforcement assures also high protection against blow out.

Material combines high torque retention, good chemical resistance and outstanding thermo-mechanical properties. Suitable for sealing of hot water, steam, oils, fuels, non-aggressive chemicals and many other media.

Technical data Typical values for a thickness of 1.5 mm

Density	DIN 28090-2	g/cm ³	2.0 - 2.2
Compressibility	ASTM F 36/J	%	7 - 9
Recovery	ASTM F36/J	%	>55
Tensile strength	DIN 52910	MPa	≈ 25
Stress resistance (50MPa, T=175 °C)	DIN 52913	MPa	≈ 39
Stress resistance (50MPa, T=300 °C)	DIN 52913	MPa	≈ 36
Specific leak rate	DIN 3535/6	mg/(s.m)	<0.5
Thickness increase after immersion in	ASTM F146		
• Oil IRM 903, 5h, 150°C			≈ 5
• ASTM Fuel B, 5h/23°C			≈ 7
Compression modulus	DIN 28090-2		
• at room temperature: ϵ_{CSV}		%	8 - 10
• at elevated temperature: $\epsilon_{WSW/200^{\circ}C}$		%	7 - 9
Percentage creep deformation	DIN 28090-2		
• at room temperature: ϵ_{KRW}		%	>4
• at elevated temperature: $\epsilon_{WRW/200^{\circ}C}$		%	≈ 1
Creep deformation 50MPa/300 °C			
• Change in thickness at 20 °C		%	8 - 10
• Change in thickness at 300 °C		%	13 - 15

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 behaviour in gasket joint. The data may not, therefore, be used to support any warranty claims. This edition cancels all previous issues. Subject to change without notice.



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The recommendations made here are intended to be a guideline for the selection of the suitable gasket quality. Because the function and durability of the products depend upon a number of factors, the data may not be used to support any warranty claims.

Acetamide	●
Acetic acid 10%	●
Acetic acid 100%	●
Acetic ester	■
Acetone	■
Acetylene	●
Adipic acid	●
Air	●
Alum	●
Aluminium acetate	●
Aluminium chlorate	●
Aluminium chloride	●
Ammonia	●
Ammonium bicarbonate	●
Ammonium chloride	●
Ammonium hydroxide	●
Amyl acetate	■
Aniline	▼
Asphalt	●
Barium chloride	●
Benzene	■
Benzoic acid	●
Boric acid	●
Borax	●
Butane	●
Butyl alcohol	●
Butyric acid	●
Calcium chloride	●
Calcium hydroxide	●
Carbon disulphide	▼
Carbon dioxide	●
Chloroform	■
Chlorine, dry	■
Chlorine, wet	■
Chromic acid	▼
Citric acid	●
Copper acetate	●
Creosote	▼
Cresol	■
Cyclohexanol	●
Cyclohexanone	■
Decalin	●
Dibenzyl ether	▼
Dimethyl formamide	▼
Dowtherm	■
Ethane	●
Ethyl acetate	■
Ethyl alcohol	●
Ethyl chloride	■
Ethylene	●
Ethylene glycol	●
Formic acid 10%	●
Formic acid 85%	●
Formaldehyde	●
Freon 12	●
Freon 22	■
Fuel oil	●
Gasoline	●
Glycerine	●
Heptane	●
Hydraulic oil (Mineral)	●
Hydraulic oil (Phosphate ester type)	■
Hydraulic oil (Glycol based)	●
Hydrazine	●
Hydrochloric acid 20%	■
Hydrochloric acid 36%	▼
Hydrofluoric acid 10%	▼
Hydrofluoric acid 40%	▼
Hydrogen	●
Isobutane	●
Isooctane	●
Isopropyl alcohol	●
Kerosene	●
Lead acetate	●
Lead arsenate	●
Magnesium sulphate	●
Malic acid	●
Methane	●
Methanol	●
Methyl chloride	■
Methylene dichloride	▼
Methyl ethyl ketone	■
Milk	●
Mineral oil type ASTM no.1	●
Naphtha	●
Nitric acid 20%	▼
Nitric acid 40%	▼
Nitric acid 96%	▼
Nitrobenzene	▼
Nitrogen	●
Octane	●
Oleic acid	●
Oleum	▼
Oxalic acid	■
Oxygen	●
Palmitic acid	●
Pentane	●
Perchloroethylene	■
Phenol	▼
Phosphoric acid	■
Potassium acetate	●
Potassium bicarbonate	●
Potassium carbonate	●
Potassium chloride	●
Potassium dichromate	●
Potassium hydroxide	■
Potassium iodide	●
Potassium nitrate	●
Potassium permanganate	●
Propane	●
Pyridine	▼
R 134a	●
Salicylic acid	●
Silicone oil	●
Soap	●
Sodium aluminate	●
Sodium bicarbonate	●
Sodium bisulphite	●
Sodium carbonate	●
Sodium chloride	●
Sodium cyanide	●
Sodium hydroxide	■
Sodium sulphate	●
Sodium sulphide	●
Starch	●
Steam	●
Stearic acid	●
Sugar	●
Sulphuric acid 20%	▼
Sulphuric acid 96%	▼
Tar	●
Tartaric acid	●
Toluene	●
Transformer oil	●
Trichlorethylene	■
Water	●
White Spirit	●
Xylene	■

- Recommended
- Recommendation depends on operating conditions
- ▼ Not recommended

In order to spread the most comprehensive knowledge of our products, our highly skilled group of experts organized in technical-service department can assist you by solving your sealing problem. If you need our help, contact us.

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