

GASKET SHEETS BROCHURE

ENGINEERED MATERIALS FOR DEMANDING SEALING DUTIES



COMPLETE TECHNICAL DATA • PERFORMANCE RATINGS • APPLICATION GUIDANCE

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PERFORMANCE SERIES

JMP 6000

COMPRESSED NON-ASBESTOS GASKET SHEET

BASIS Aramid fibres, glass fibres and inorganic fillers. NBR binder.

Premium sealing sheet with excellent steam and hot-water resistance, superior stress relaxation and broad chemical compatibility.

PERFORMANCE ENVELOPE

475 °C

PEAK TEMPERATURE

375 °C

OPERATING TEMPERATURE

150 bar

PEAK PRESSURE

280 °C

STEAM CONTINUOUS

TYPICAL VALUES - NOMINAL 1.5 MM

PROPERTY	TEST METHOD	VALUE	UNIT
Density	ASTM F1315	1.70 - 2.10	g/cm ³
Tensile strength	ASTM F152	8 min.	N/mm ²
Compressibility	ASTM F36J	7 - 12	%
Recovery	ASTM F36J	50 min.	%
Stress relaxation (175 °C)	BS 7531	30 min.	N/mm ²
Gas permeability	BS 7531	≤ 1.0	ml/min
Ignition loss	ASTM F495	≤ 30.0	%

SHEET SPECIFICATION

SHEET SIZE

1500 x 2000 mm

THICKNESSES

1.0 / 1.5 / 2.0 / 3.0 mm

TOLERANCE

<1 mm ±0.1 mm | 1 mm ±10%

RECOMMENDED APPLICATIONS

● Steam systems

● Hot water

● Oils & fuels

● Industrial gases

● Pipelines

● OEM assemblies

STAMP SELECTION

S

SIZE

T

TEMPERATURE

A

APPLICATION

M

MEDIUM

P

PRESSURE

APPLICATION GUIDANCE

AREA A

GENERAL

AREA B

CONSULT

AREA C

REQUIRED



Typical values may vary by application and do not constitute a performance guarantee.

Users must confirm suitability for their specific service conditions before use.

VALUE SERIES

JMP ECONOMY

OIL-RESISTANT ASBESTOS-FREE GASKET SHEET

BASIS Aramid fibres and NBR. BS 7531 Grade Y.

Economical gasket sheet for medium to high loadings with good resistance to water, gases, oils and fuels. Anti-stick surface standard.

PERFORMANCE ENVELOPE

250 °C

PEAK TEMPERATURE

200 °C

CONTINUOUS TEMPERATURE

50 bar

MAXIMUM PRESSURE

160 °C

STEAM TEMPERATURE

TYPICAL VALUES - NOMINAL 1.5 MM

PROPERTY	TEST METHOD	VALUE
Compressibility	ASTM F36/J	9%
Recovery	-	>50%
Tensile strength	DIN 52910	8 N/mm ²
Gas leakage	DIN 3535/6	0.08 mg/(s.m)
Stress resistance	DIN 52913	25 / 35 N/mm ²
Thickness increase	ASTM F146	0.1 / 0.1
Maximum P x T	-	2,000 bar x °C

SHEET SPECIFICATION

SHEET SIZES

1500 x 1500 / 2000 / 4500 mm

THICKNESSES

0.4 / 0.8 / 1.0 / 1.5 / 2.0 / 3.0 mm

SURFACE

Anti-stick coating standard

RECOMMENDED APPLICATIONS

Water services

Oils & fuels

General gases

Utility piping

Plant maintenance

Cost-sensitive OEM

STAMP SELECTION

S

SIZE

T

TEMPERATURE

A

APPLICATION

M

MEDIUM

P

PRESSURE

APPLICATION GUIDANCE

AREA A

GENERAL

AREA B

CONSULT

AREA C

REQUIRED



ACTUAL MATERIAL

Typical values may vary by application and do not constitute a performance guarantee.

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REINFORCED SERIES

JMP 6000 WIRE

WIRE-REINFORCED COMPRESSED NON-ASBESTOS SHEET

BASIS Aramid fibres, glass fibres and inorganic fillers with wire reinforcement. NBR binder.

Heavy-duty wire-reinforced CNAF sheet engineered for steam, hot water, oils, fuels, gases and demanding industrial sealing duties.

PERFORMANCE ENVELOPE

550 °C

PEAK TEMPERATURE

400 °C

OPERATING TEMPERATURE

170 bar

PEAK PRESSURE

280 °C

STEAM CONTINUOUS

TYPICAL VALUES - NOMINAL 1.5 MM

PROPERTY	TEST METHOD	VALUE	UNIT
Density	ASTM F1315	1.70 - 2.10	g/cm ³
Tensile strength	ASTM F152	8 min.	N/mm ²
Compressibility	ASTM F36J	7 - 12	%
Recovery	ASTM F36J	50 min.	%
Stress relaxation (175 °C)	BS 7531	30 min.	N/mm ²
Gas permeability	BS 7531	≤ 1.0	ml/min
Ignition loss	ASTM F495	≤ 30.0	%

SHEET SPECIFICATION

SHEET SIZE

1500 x 2000 mm

THICKNESSES

1.0 / 1.5 / 2.0 / 3.0 mm

CONSTRUCTION

Wire-reinforced CNAF

RECOMMENDED APPLICATIONS

● High-pressure steam

● Boiler systems

● Hot water

● Process piping

● Heavy flanges

● Industrial OEM

STAMP SELECTION

S

SIZE

T

TEMPERATURE

A

APPLICATION

M

MEDIUM

P

PRESSURE

APPLICATION GUIDANCE

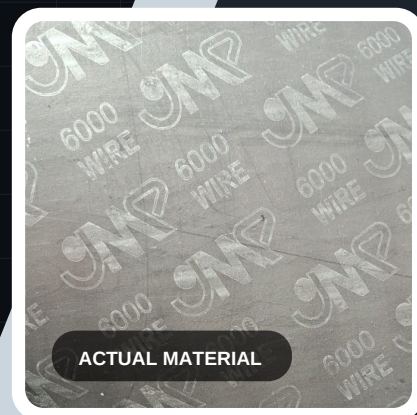
AREA A
GENERAL

AREA B
CONSULT

AREA C
REQUIRED

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CHEMICAL DUTY SERIES

JMP ACID

ACID-RESISTANT COMPRESSED GASKET SHEET

BASIS Aramid fibres and CSM. DIN 28091-2.

Gasket material for aggressive media with very good chemical resistance to acids and alkaline media. Anti-stick surface treatment standard.

PERFORMANCE ENVELOPE

200 °C

PEAK TEMPERATURE

150 °C

CONTINUOUS TEMPERATURE

60 bar

MAXIMUM PRESSURE

7,000

P X T (BAR X °C)

TYPICAL VALUES - NOMINAL 2.0 MM

PROPERTY	TEST METHOD	VALUE
Compressibility	ASTM F36/J	8%
Recovery	ASTM F36/J	45%
Tensile strength	DIN 52910	10 N/mm ²
Gas permeability	DIN 3535/6	0.06 mg/(s.m)
Stress resistance	DIN 52913	25 N/mm ²
HNO ₃ thickness increase	ASTM F146	10%
H ₂ SO ₄ thickness increase	ASTM F146	8%

SHEET SPECIFICATION

SHEET SIZES

1500 x 1500 / 2000 / 4500 mm

THICKNESSES

1.5 / 3.0 mm

SURFACE

Anti-stick coating standard

RECOMMENDED APPLICATIONS

● Acid services

● Alkaline media

● Chemical plants

● Process piping

● Aggressive media

● Industrial OEM

STAMP SELECTION

S

SIZE

T

TEMPERATURE

A

APPLICATION

M

MEDIUM

P

PRESSURE

APPLICATION GUIDANCE

AREA A
GENERAL

AREA B
CONSULT

AREA C
REQUIRED

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MODIFIED PTFE SERIES

MODIFIED SILICA

SILICA-FILLED MODIFIED PTFE GASKET SHEET

BASIS 100% modified PTFE with silica filler.

High-performance sealing sheet for gaseous and aggressive media, with strong chemical resistance, outstanding recovery and reduced cold flow and creep.

PERFORMANCE ENVELOPE

+260 °C

MAXIMUM TEMPERATURE

-240 °C

MINIMUM TEMPERATURE

2.0 - 2.15

SPECIFIC WEIGHT G/CM³

25%

RECOVERY

TECHNICAL PARAMETERS

PROPERTY	TEST METHOD	VALUE
Composition	-	Modified PTFE + silica
Temperature range	-	-240 °C to +260 °C
Specific weight	-	2.0 - 2.15 g/cm ³
Compressibility	-	8%
Recovery	-	25%
Colour	-	Dark pink
Human hazardous	-	Not registered

SHEET SPECIFICATION

SHEET SIZES

1500 x 1500 / 1900 x 1900 mm

THICKNESSES

1.0 / 1.5 / 2.0 / 3.0 mm

MATERIAL

Dark-pink modified PTFE

RECOMMENDED APPLICATIONS

- Gaseous media
- Moderate acids
- Alkaline media
- Heat exchangers
- Distillation towers
- Thermal cycling

STAMP SELECTION

S	T	A	M	P
SIZE	TEMPERATURE	APPLICATION	MEDIUM	PRESSURE

APPLICATION GUIDANCE

AREA A GENERAL	AREA B CONSULT	AREA C REQUIRED
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CHEMICAL & HYGIENIC SERIES

MODIFIED BARIUM

WHITE BARIUM-SULPHATE-FILLED PTFE GASKET SHEET

BASIS 100% modified PTFE with barium sulphate filler.

White sealing sheet for pharmaceutical, food and chemical duties, with excellent gaseous-media performance and strong compressibility resistance.

PERFORMANCE ENVELOPE

280 °C

MAXIMUM TEMPERATURE

85 - 90 bar

MAXIMUM PRESSURE

2.7 - 2.9

SPECIFIC WEIGHT G/CM³

30 - 40%

RECOVERY

TECHNICAL PARAMETERS

PROPERTY	TEST METHOD	VALUE
Composition	-	Modified PTFE + BaSO ₄
Maximum temperature	-	280 °C
Maximum pressure	-	85 - 90 bar
Specific weight	-	2.7 - 2.9 g/cm ³
Compressibility	-	7 - 10%
Recovery	-	30 - 40%
Hazardous	-	Not detected

SHEET SPECIFICATION

SHEET SIZE

1500 x 1500 mm

THICKNESSES

0.5 / 1.0 / 1.5 / 2.0 / 2.5 / 3.0 / 4.0 / 5.0 mm

MATERIAL

White modified PTFE

RECOMMENDED APPLICATIONS

- Pharmaceutical
- Food industry
- Chemical industry
- Acids below 40%
- Gaseous media
- Process sealing

STAMP SELECTION

S **T** **A** **M** **P**
SIZE TEMPERATURE APPLICATION MEDIUM PRESSURE

APPLICATION GUIDANCE

AREA A GENERAL AREA B CONSULT AREA C REQUIRED

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HIGH-PRESSURE CHEMICAL SERIES

MODIFIED GLASS

SOFT-BLUE GLASS-FILLED MODIFIED PTFE GASKET SHEET

BASIS 100% modified PTFE with glass filler.

Soft-blue sealing sheet for high-pressure gaseous and chemical media, with excellent chemical resistance, reduced cold flow and low assembly pressure.

PERFORMANCE ENVELOPE

280 °C

MAXIMUM TEMPERATURE

85 - 90 bar

MAXIMUM PRESSURE

2.2 - 2.3

SPECIFIC WEIGHT G/CM³

22 - 25%

RECOVERY

TECHNICAL PARAMETERS

PROPERTY	TEST METHOD	VALUE
Composition	-	Modified PTFE + glass
Maximum temperature	-	280 °C
Maximum pressure	-	85 - 90 bar
Specific weight	-	2.2 - 2.3 g/cm ³
Compressibility	-	25 - 28%
Recovery	-	22 - 25%
Hazardous	-	Not detected

SHEET SPECIFICATION

SHEET SIZE

1500 x 1500 mm

THICKNESSES

0.5 / 1.0 / 1.5 / 2.0 / 2.5 / 3.0 / 4.0 / 5.0 mm

MATERIAL

Soft-blue modified PTFE

RECOMMENDED APPLICATIONS

● Gaseous media

● High-pressure duties

● Moderate acids

● Alkaline media

● Chemical processing

● Industrial sealing

STAMP SELECTION

S

SIZE

T

TEMPERATURE

A

APPLICATION

M

MEDIUM

P

PRESSURE

APPLICATION GUIDANCE

AREA A
GENERAL

AREA B
CONSULT

AREA C
REQUIRED

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SOFT SEALING SERIES

EXPANDED PTFE

WHITE MULTIDIRECTIONAL EXPANDED PTFE GASKET SHEET

BASIS 100% pure expanded PTFE with a multidirectional fibrillated microstructure.

Soft, highly conformable sheet with excellent creep and cold-flow resistance for uneven or damaged flanges, chemicals and hygienic processing duties.

PERFORMANCE ENVELOPE

+260 °C

OPERATING TEMPERATURE

+316 °C

SHORT-TERM TEMPERATURE

-268 °C

MINIMUM TEMPERATURE

pH 0 - 14

CHEMICAL RANGE

TYPICAL PHYSICAL PROPERTIES - NOMINAL 0.8 MM

PROPERTY	TEST METHOD	VALUE
Sealability leakage	ASTM F37-B	0.16 ml/hr
Test pressure	Nitrogen gas	4 bar / 60 psig
Compressibility	ASTM F36	66%
Creep relaxation	ASTM F38	38%
Recovery	ASTM F36	16%
Composition	-	100% expanded PTFE
Safety	-	Non-toxic

SHEET SPECIFICATION

SHEET SIZES

1500 x 1500 / 2000 x 2000 mm

THICKNESSES

0.5 / 1.0 / 1.5 / 2.0 / 3.0 / 4.0 / 5.0 / 6.0 mm

MATERIAL

White expanded PTFE

RECOMMENDED APPLICATIONS

● Chemical plants

● Food equipment

● Pharmaceutical

● Petrochemical

● Distilling

● Pulp & paper

STAMP SELECTION

S

SIZE

T

TEMPERATURE

A

APPLICATION

M

MEDIUM

P

PRESSURE

APPLICATION GUIDANCE

AREA A
GENERAL

AREA B
CONSULT

AREA C
REQUIRED

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EXTREME DUTY SERIES

TANGED GRAPHITE

SS316 TANGED-CORE EXPANDED GRAPHITE GASKET SHEET

BASIS Laminated 98% pure expanded graphite with a 0.1 mm SS316 tanged metal core.

High-strength graphite sealing sheet for extreme temperatures and pressures, with excellent creep resistance and reinforced flange stability.

PERFORMANCE ENVELOPE

500 °C

PEAK TEMPERATURE

650 °C

STEAM TEMPERATURE

140 bar

MAXIMUM PRESSURE

25,000

MAXIMUM P X T

TYPICAL VALUES - NOMINAL 0.8 MM

PROPERTY	TEST METHOD	VALUE
Compressibility	ASTM F36	30%
Recovery	ASTM F36	23%
Tensile strength	ASTM F152	34.5 N/mm ²
Creep relaxation	ASTM F38B	10%
Gas permeability	DIN 3535/4	0.4 ml/min
Minimum temperature	-	-200 °C
Graphite purity	-	98%

SHEET SPECIFICATION

SHEET SIZE

1500 x 1500 mm

THICKNESSES

1.5 / 2.0 / 3.0 mm

CONSTRUCTION

0.1 mm SS316 tanged core

RECOMMENDED APPLICATIONS

- High-temperature duty
- High-pressure duty
- Steam systems
- Boilers
- Heat exchangers
- Process piping

STAMP SELECTION

S	T	A	M	P
SIZE	TEMPERATURE	APPLICATION	MEDIUM	PRESSURE

APPLICATION GUIDANCE

AREA A GENERAL	AREA B CONSULT	AREA C REQUIRED
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