

Ferolite®

An Iso 9001-2000/ts 16949:2002 Certified Company

General Data

Standard Sheet Size	1500x2000 mm, 1500x4000 mm, 1500x1500 mm, 1500x4500 mm, 1500x3000 mm, 2000x3000 mm
Thickness	0.25 mm to 3.00 mm (For Non-Metalic Range) 0.80 mm to 3.00 mm (For Metalic Range)
Tolerances	Thickness ≤ 1 mm = ± 0.10 mm > 1 mm = ± 10%
	Length ± 50 mm
	width ± 50 mm

All information and recommendations given in this brochure are correct to the best of our knowledge. Since conditions of use are beyond our control, the information provided can only serve as a guideline. Users must satisfy themselves that products are suitable for the intended processes and uses. We reserve the right to change product design and properties without notice.

Should you have any doubts about the choice of gasket material, please refer to us. Our Engineering cell will be happy to assist you.

Properties Applicable for 2.0 mm thick material.

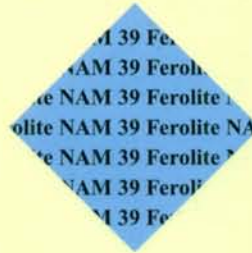
Density		gm/cm2	
Tensile Strength			
a) Acc to ASTM F 152 (Across Grain)		N/mm2	
b) Acc to DIN 52910 (Across Grain)			
Compressibility	ASTMF36A	%	
Recovery	ASTMF36A	%	
Fluid Absorption			
IN ASTM OIL No.3	ASTMF146	%	
Increase in Mass			
Increase in Thickness			
In Fuel B	ASTMF146	%	
Increase in Mass			
Increase in Thickness			
In Water/Antifreeze	ASTMF146	%	
Increase in Mass			
Increase in Thickness			
In Acid (Change in Tensile Strength)			
96% H ² SO ₄ Acid (48 hrs. at 23°C)		%	
95% HNO ₃ Acid (48 hrs. at 23°C)		%	
Ignition Loss	DIN 52911	%	
Sealability Against Nitrogen	DIN 3535	Cm ³ /min	
Stress Resistance			
16h 300°C	DIN 52913	N/mm ²	
16h 175°C	DIN 52913	N/mm	
M value			
Y value			
Max. Peak Temp.		°C	
Max. Continuous Temp.		°C	
Max. Continuous Temp. with Steam		°C	
Max. Operating Pressure		°C	
ASTMF104 Line call-out		Kg/cm²	

Max values of temperature and pressure should not be used simultaneously, they are given only as guidance. Max. temperature and pressure depends not only on the type of gasket material but also on the application conditions such as thickness of material, nature of service medium type of flange, surface stress etc.

Performance Chart and Recommendation

- Uncritical for application, provided Ferolite assembly rules are followed
- Only for short term temp. excursions.
- Application might be okay, but is critical kindly consult ferolite technical support.

Ferolite NAM 39



Mineral Fibre, High Quality NBR & Organic Fibre.

- Water/Oil resistant
- For light to medium loadings
- Suitable for low operating pressure, e.g. transformers, compressors and oil pans in internal combustion engines.

1.50- 2.00

≥ 7

≥ 5

7-15

≥ 40

≤ 15

≤ 10

≤ 10

≤ 10

≤ 15

≤ 7

≤ 40

—

10

2.5

25

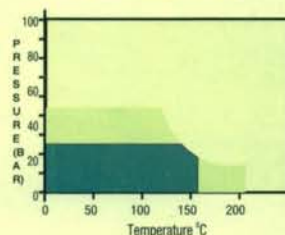
250

180

120

50

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Ferolite NAM 37



Aramid Fibre, Mineral Fibre and NBR

- Water/Oil resistant
- For light to medium loadings
- For low operating pressure e.g. transformers, compressors, valve cover and oil in IC Engines.

1.70- 2.00

≥ 8

≥ 5

7-15

≥ 50

≤ 15

≤ 10

≤ 10

≤ 10

≤ 15

≤ 7

≤ 35

≤ 1.0

10

~ 28

2.5

25

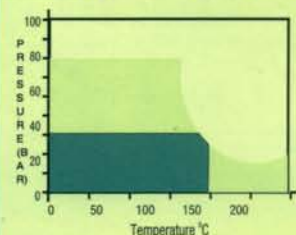
300

220

160

80

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Ferolite NAM 30



Aramid Fibre, Mineral Fibre and NBR

- Oil resistant
- For medium to higher loadings
- Resistance to water & gases e.g. compressors, pipelines, gas meters and IC engines.

BS-7531 Conforms to Grade Y

1.70- 2.00

≥ 10

≥ 7

7-15

≥ 50

≤ 10

≤ 10

≤ 10

≤ 10

≤ 10

≤ 7

≤ 30

≤ 1.0

~ 22

~ 28

—

—

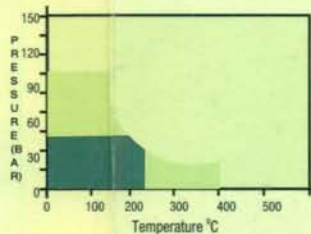
400

250

220

100

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Ferolite NAM 32



Aramid fibre, Mineral Fibre and NBR.

- High performance oil resistant
- For high loading
- Excellent thermal, chemical & mechanical properties.
- For compressors, pipelines, gas meters and IC Engines, pipeunions, pumps etc.

BS-7531 Conforms to Grade X

1.70- 2.00

≥ 14

≥ 11

6-12

≥ 50

≤ 10

≤ 8

≤ 10

≤ 7

≤ 15

≤ 7

≤ 30

≤ 0.5

~ 25

~ 30

2.5

20

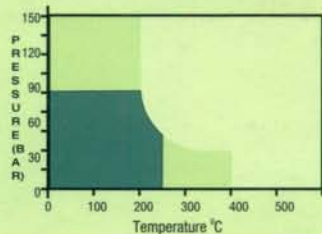
400

270

240

150

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Ferolite NAM 32N



Aramid Fibre, Mineral Fibre and Neoprene Elastomers.

- Oil resistant
- For higher loading
- Resistance to water, gases and fuels
- Versatile media resistance properties of Neoprene Binder
- Excellent thermal chemical & mechanical properties.

BS-7531 Conforms to Grade X

1.70- 2.00

≥ 10.5

≥ 8

6-12

≥ 50

≤ 10

≤ 10

≤ 10

≤ 10

≤ 10

≤ 7

≤ 30

≤ 1.0

25

30

2.5

20

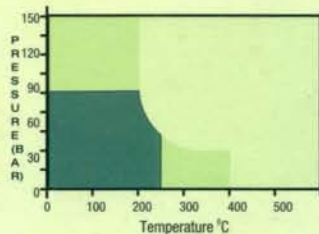
400

270

240

150

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Ferolite NAM 32CR



Aramid Fibre with CSM Elastomers.

- For different aggressive media
- Excellent chemical resistance to acid & alkaline media.

BS-7531 Conforms to Grade X

1.70- 2.00

≥ 15

≥ 10

7-17

≥ 50

≤ 12

≤ 5

≤ 28

—

—

2.5

20

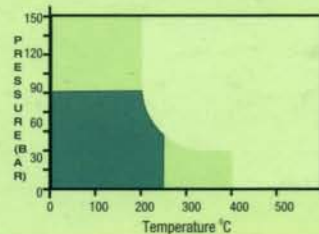
400

270

240

150

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Ferolite NAM 33

M 33 Fe.
AM 33 Feroh.
e NAM 33 Ferolite
olite NAM 33 Ferolite NA
e NAM 33 Ferolite
AM 33 Feroh
M 33 Fe

Aramid Fibre, Mineral Fibre and SBR.

- Controlled swell properties in oil
- For automotive and chemical industry e.g. IC engines, hydraulic engines, reiterating oils and hydrocarbons
- For joints with low sealing pressure e.g. housing valve covers, oil pans etc.

1.70- 2.00

≥ 12
≥ 9
6-12
≥ 50

8-30
8-30

10-30
8-30

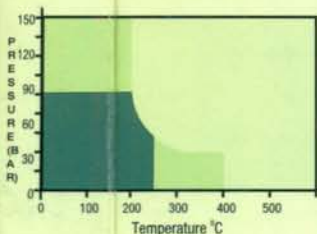
15
7

≤ 35
≤ 1.0

~ 20
~ 30
2.5
22

400
270
240
150

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Ferolite NAM 31

M 31 Fe.
AM 31 Feroh.
e NAM 31 Ferolite
olite NAM 31 Ferolite NA
e NAM 31 Ferolite
AM 31 Feroh
M 31 Fe

Aramid Fibre, Mineral Fibre & NBR
Elastomers

- Certain chemicals have been kept at a minimum level, the excess of which might effect the media
- It contains a high amount of mineral fibre which is bio-soluble & thus do not pose any health hazard
- It does not contains any material which might contribute to bacterial or fungal growth

1.70- 2.00

≥ 8
≥ 6
7-15
≥ 50

≤ 10
≤ 10

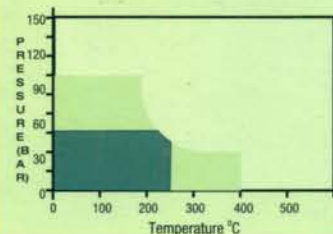
≤ 10
≤ 10

≤ 10
≤ 7

≤ 36
≤ 1.0

~ 25
~ 30
—
—

400
270
240
100



Ferolite NAM 42 GF

M 42 GF Fe.
AM 42 GF Feroh.
e NAM 42 GF Ferolite
olite NAM 42 GF Ferolite NA
e NAM 42 GF Ferolite
AM 42 GF Feroh
M 42 GF Fe

Aramid Fibre, Glass Fibre with NBR.

- High media resistance
- High stress condition

BS-7531 Conforms to Grade X

1.70- 2.00

≥ 7
≥ 5
6-12
≥ 50

≤ 10
≤ 10

≤ 10
≤ 7

≤ 15
≤ 5

≤ 30
≤ 1.0

25
30
2.5
20

440
350
250
150

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Ferolite NAM 45 CF

M 45 CF Fe.
AM 45 CF Feroh.
e NAM 45 CF Ferolite
olite NAM 45 CF Ferolite NA
e NAM 45 CF Ferolite
AM 45 CF Feroh
M 45 CF Fe

Aramid Fibre, Carbon Fibre NBR.

- For Modlurn to higher Lodings
- Excellont loi sliiim & Alkalies
- Chemical & iHilrodinmical Industriis
- Pulp, paper, chemical & potrochimicnl industries.

1.70- 2.00

≥ 8
—
7-12
≥ 50

≤ 10
≤ 8

≤ 10
≤ 7

≤ 10
≤ 7

≤ 30
≤ 0.5

20
30
2.5
22

400
300
280
150

