Compressed Asbestos Gasket Materials

Ferolite®

AN ISO 9001 : 2008 / TS 16949:2009 CERTIFIED COMPANY

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.

*** Graphite Coating & Antistick Coating available on request**

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

GENERAL DATA

Standard Sheet Size

1500 x 2000 mm	1500 x 4000 mm
1500 x 1500 mm	1500 x 4500 mm
1500 x 3000 mm	2000 x 3000 mm

Thickness

0.25 mm to 6.00 mm
(For Non Metallic Range)
0.60 mm to 6.00 mm
(For Metallic Range)

Tolerances

Thickness	As per IS
Length	± 50 mm
Width	± 50 mm

- All metallic Jointing Sheets are treated on one side with graphite. Both Side graphite sheets can be supplied on request.

- 3△ finish can be provided on all Jointing Sheets i.e., anti stick, anti corrosion capabilities.

Performance Chart and Recommendation

- Unofficial 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.

Properties Applicable for 1.5 mm thick material	IS 2712/1998
Density	1.7-2.2 gm/cm³
Tensile Strength	> 6.7 Mpa.
Compressibility	6-14 %
Recovery	> 40%
Stress Relaxation	----
Lgnition Loss	< 28 %
FLUID ABSORPTION	----
Water	
Mass Increase	
In ASTM OIL No.3	
Thickness Increase	
Mass Increase	
In FUEL B	
Thickness Increase	
Mass Increase	
Sulphuric Acid (96%)	
Thickness Increase	
Tensile Strength Decrease	
Nitric Acid (95%)	
Thickness Increase	
Tensile Strength Decrease	
Peak Temp. °C	380
Max. Operating Pressure Kg/cm²	35

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.

* DIN, + is

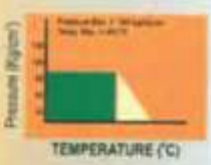
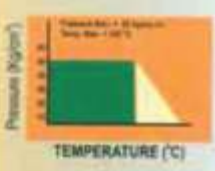
Ferolite '333'

- For Low and medium stress conditions.
- For water, steam, air and various alkaline chemicals.

Specification Compliance

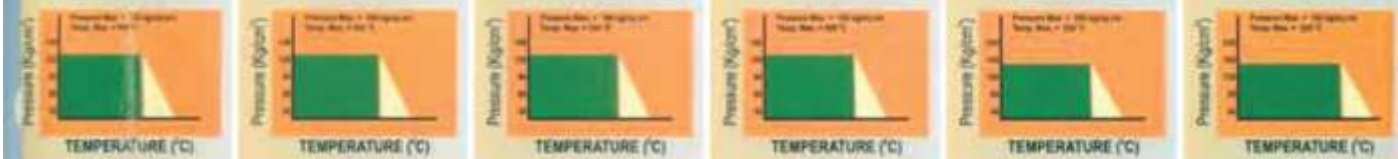
IS 2712/1998 Grade W/3

All DATA QUOTED ABOVE

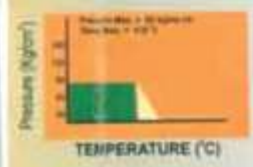
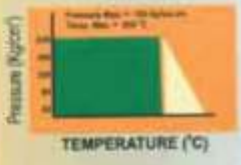
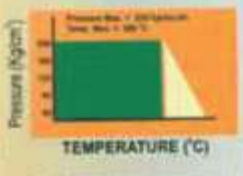
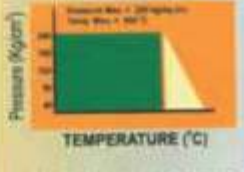
Ferolite	Ferolite 'Extra'	Ferolite 'IT-300'	Ferolite 'IT-400'	Ferolit	Ferolite 'F'
					
• For Low and medium stress conditions. • For air, water, steam, saline solution, alkalies, ammonia and mildly aggressive media	• For medium stress conditions. • For water, steam, natural gas, petrol, saline solution, alkalies, ammonia and other non-aggressive media	• For high stress conditions. • For water, steam, saline solution, alkalies, ammonia propane, producer gas and mildly aggressive media	• For high stress conditions. • For water, steam, saline solution, alkalies, ammonia propane, producer gas and mildly aggressive media	• For medium to high stress conditions. • For motor oil, Transmissions and hydraulic fluids, low temp, oil, Steam Alkalies, anti freeze. • For IC Engines, Compressors, Pipes etc.	• For low to medium stress conditions. • For motor oil, transmissions and hydraulic fluids, low temp, oil, Steam Alkalies, anti freeze, refrigerating oil. • High oil and fuel resistance.
Specification Compliance	**Specification Compliance**	**Specification Compliance**	**Specification Compliance**	**Specification Compliance**	**Specification Compliance**
IS 2712/1998 Grade W/3	IS 2712/1998 Grade W/2, 0/2 DIN:3754 IT200 ASTM: F104F112650 M6 BS2815-1973 Grade B JIS: R3453(1985)Type-2	IS 2712/1998 Grade W/1 DIN:3754 IT 300 ASTM:F104F112001 M7 BS2815-1973GradeA	IS 2712/1998 Grade W/1 DIN:3754 IT 400 ASTM:F104F 112001 M7 BS2815-1973GradeA	IS 2712/1998 Grade W/2, 0/2 ASTM:F104F112340 M6 JIS :R 3453 (1985) Type-1	DIN : 3754 IT - 0 ASTM:F104F 112121 M7 JIS:R 3453 (1985) Type-3
IS 2712/1998	IS 2712/1998	IS 2712/1998	IS 2712/1998	IS 2712/1998	ASTMF104
1.7-2.2 gm/cm³	1.7-2.2 gm/cm³	1.7-2.2 gm/cm³	1.7-2.2 gm/cm³	1.7-2.2 gm/cm³	1.7-2.2 gm/cm³
> 7.5 Mpa.	> 12.8 Mpa.	> 24.0 Mpa.	> 24.0 Mpa.	> 13.0 Mpa.	> 24.0 Mpa.
6-14 %	6-14 %	6-14 %	6-14 %	6-14 %	7-12 %
> 40%	> 40%	> 40%	> 40%	> 40%	> 50%
----	> 17.5 Mpa.	> 23.0 Mpa.	< 23.0 Mpa.	> 17.5 Mpa.	> 23.0 Mpa.
< 28 %	< 28 %	< 28 %	< 28 %	< 28 %	< 28 %
----	----				
	< 10%	< 10%	< 10%	< 10%	< 10%
				< 35%	< 10%
				< 30%	< 15%
				< 30%	< 10%
				< 30 %	< 10%
440	450	550	550		450
45	85	150	150	460	50
				100	
					
TEMPERATURE (°C)	TEMPERATURE (°C)	TEMPERATURE (°C)	TEMPERATURE (°C)	TEMPERATURE (°C)	TEMPERATURE (°C)

BASED ON YEARS OF EXPERIENCE IN PRODUCTION & OPERATION OF SEALING ELEMENTS, IN VIEW OF THE WIDE VARIETY OF POSSIBLE INSTALLATION & OPERATING CONDI

Ferolite 'K'	Ferolite 'Special'	Ferolite 'CS'	Ferolite IT 'O'	Ferolite IT 'C' Universal	Ferolite 'Acid'
• For high stress conditions. • For chlorinated hydrocarbon, Ammonia & refrigerating oils.	• For high stress conditions. • For motor oil, transmissions and hydraulic fluids, low temp, oil, Steam Alkalies, anti freeze, refrigerating oil. • For IC Engines, compressors, chemical plants, hot oil tar oil & chlorinated & aromatic hydrocarbon.	• For low sealing loads and relatively uneven surfaces. • with controlled swell properties. • For 1C Engines, compressors, pipes, oil pans, valve covers.	• For high stress conditions. • For transmissions and hydraulic fluids, Steam, Alkalies, anti freeze, refrigerating oil, solvents, anti corrosion mixtures.	• For high stress conditions. • For air, water, steam, alkalies, alcohols, esters, ketones, etc. • Suitable for most fluids	• For low to medium stress conditions. • For aggressive organic and inorganic acids, alkalies, alcohols, esters and ketons.
Specification Compliance	**Specification Compliance**	**Specification Compliance**	**Specification Compliance**	**Specification Compliance**	**Specification Compliance**
IS 2712/1998	IS 2712/1998 Grade W/1, 0/1 ASTM: F104F 112330 M7 JIS: R 3453 (1985) Type-1 BS: 2815-1973 Grade A B5:1832-1991 Grade A	ASTM:F104F 112950 M7	DIN : 3754 IT-O	DIN : 3754 IT-0 DIN : 3754 IT-S DIN : 3754 IT-400	IS: 2712/1998 Grade A/1
IS 2712/1998	IS 2712/1998	ASTMF104	* DIN, +IS	IS 2712/1998	IS 2712/1998
1.7-2.2 gm/cm³	1.7-2.2 gm/cm³	1.7-2.2 gm/cm³	1.8-2.0 gm/cm³	1.7-2.2 gm/cm³	1.7-2.2 gm/cm³
> 24.0 Mpa.	> 24.0 Mpa.	> 24.0 Mpa.	> 16.0 N/mm²	> 24.0 Mpa.	> 24.0 Mpa.
6-14 %	6-14 %	6-14 %	5-15 %	6-14 %	6-14 %
> 40%	> 40%	> 40 %	> 40 %	> 40 %	> 40 %
> 23.0 Mpa.	> 23.0 Mpa.	> 23.0 Mpa.	> 23.0 Mpa.	> 23.0 Mpa.	> 23.0 Mpa.
< 28 %	< 28 %	< 28 %	< 26 %	< 28 %	< 28 %
	< 10%	< 10 %		< 10 %	
* (In refrigerating Oil)					
* < 5	< 25%	20-40 %	< 15 %	< 20 %	
* < 5	< 20%	15-30 %	< 15 %	< 15 %	
	< 20%	20-40 %	< 20 %	< 15 %	
	< 20%	10-20 %	< 15 %	< 15 %	
					< 8 %
					> 16.5 %
					< 20 %
					> 5.5 Mpa.
-80 to +450	550	500	560	550	220
100	150	100	150	160	160



DNS ONE CAN NOT DRAW FINAL CONCLUSION IN ALL APPLICATION CASES REGARDING THE BEHAVIOUR IN GASKET JOINT. THE DATA MAY NOT THEREFORE, BE USED TO SU

	Ferolite 'Steel'	Ferolite "Extra Steel'	Ferolite 'IT-300 Steel'	Ferolite 'IGV'	Ferolite 'ISS'
					
	• For low and medium stress conditions. • With wire reinforcement. • For air, water, steam, saline solution, alkalies, ammonia and mildly aggressive media	• For medium stress conditions. • With wire reinforcement. • For water, steam, natural gas, petrol, saline solution, alkalies, ammonia and other non-aggressive media	• For high stress conditions. • With wire reinforcement. • For water, steam, saline solution, alkalies, ammonia, propane, producer gas and mildly aggressive media	• For high stress conditions. • Close wire mesh insertion. • For motor oil, transmissions and hydraulic fluids, low temp. oil, Steam Alkalies, anti freeze, refrigerating oil. • For water, air, fuels, alcohols, IC Engines.	• For high stress conditions. • Close Stainless Steal wire mesh impregnation. • With 3A Finish. • For water, air, fuels, alcohols, IC Engines, compressors etc.
Specification Compliance	NO STANDARD EXIST FOR WIRE REINFORCED SHEETS.	NO STANDARD EXIST FOR WIRE REINFORCED SHEETS.	NO STANDARD EXIST FOR WIRE REINFORCED SHEETS.	NO STANDARD EXIST FOR WIRE REINFORCED SHEETS.	NO STANDARD EXIST FOR WIRE REINFORCED SHEETS.
	IS 2712/1998	IS 2712/1998	IS 2712/1998	IS 2712/1998	IS 2712/1998
	1.8-2.2 gm/cm³	1.8-2.2 gm/cm³	1.8-2.2 gm/cm³	1.9-2.2 gm/cm³	1.9-2.2 gm/cm³
	> 8.0 Mpa.	> 12.8 Mpa.	> 24 Mpa.	> 24.0 Mpa.	> 24.0 Mpa.
	6-14 %	6-14 %	6-14 %	6-14 %	6-14 %
	> 40 %	> 40 %	> 40 %	> 40 %	> 40 %
	----	----	----	> 23 Mpa.	> 23 Mpa.
	< 28 %	< 28 %	< 28 %	< 26 %	< 26 %
				< 10 %	< 10 %
				< 25 %	< 25 %
				< 20 %	< 20 %
				< 20 %	< 20 %
				< 20 %	< 20 %
	415	480	600	600	600
	80	90	180	200	200
					

Always Towards Betterment

TS 16949

DNV

PORT ANY WARRANTY CLAIMS. WHENEVER THERE IS ANY DOUBT, OUR STAFF WILL BE PLEASED TO ASSIST YOU IN FINDING THE OPTIMUM SEALING SOLUTIONS.