

FMP 500M Expanded Graphite jacketed with Inconel wire

Typical Applications: Valves

Service Media & conditions :

Used for Superheated Steam, Hydrocarbons, Non Oxidising Liquids & Gases, Hot Ash Dyes & Chemicals, Fuel Oil & Lub oil etc. Corrosion inhibitor for moving parts



Supply Data:

Size Range : 6 x 6 to 40 x 40 mm

Form : Square

Technical Data:

Material Number :	FMP 500M
Type of Fibre :	High purity Graphite (99.5 - 99.9%) + S.S. Wire /Inconel Wire
Carrier Fibre :	-
Type of Core :	Graphite
Metal Insertion/Jacketing	Inconel Wire / Chrome Steel (S.S.) wire
Application Limit	-240°C to 650°C
Decomposition :	650°C
Operating Pressure (Max.) Rotating	30 Bar
Operating Pressure (Max.) Oscillating	150 Bar
Max Operating Pressure :	350 Bar
Temperature of Carrier Fibre :	
pH	0 - 14
Density (g/cm³)	1.1

Physical Properties:

Size (mm)	6	8	10	12	16	18	20	25	30	40	50
Weight (g/m)	39.6	70.4	110	158.4	281.6	356.4	440	687.5	990	1760	4175

Product versions:

With metal wire Insertion or Jacketing (FMP 500M) Impregnated with Special Lubricants -- To reduce stem friction & corrosion inhibitor.

Product Approval :

- Fire Test (API Standard 589, 2nd Edition in 6 Inch Class 300 Gate Valve)
- Fire Test (API 607 Rev.4 in 4 inch Class 300 Gate Valve)

Chemical Resistance Chart

1	Water	●
2	Steam	●
3	Natural Solutions	●
4	Dilute Acids	●
5	Mild Acids	●
6	Concentrated Acids	●
7	Dilute Alkalies	●
8	Strong Alkalies	●
9	Inert Gases	●
10	Acidic Vapours/ Gases	●
11	Solvents	●
12	Organic Compounds	●
13	Mineral Oil	●
14	Synthetic Oil	●
15	Abrasive Media	●
16	Bitumen	●
17	Lacques	●

Legends : ● Suitable ● Conditional Suitable ● Not Suitable

All data quoted above are based on years of experience in production & operation of sealing elements, in view of the wide variety of possible installation & operating conditions one can not draw final conclusion in all application cases regarding the behaviour in gasket joint. The data may not therefore, be used to support any warranty claims.

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

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