

# Technical Data Sheet

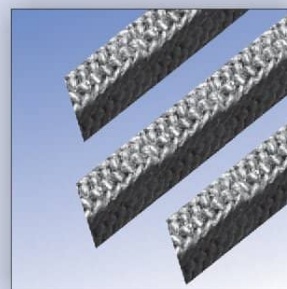


## FMP 501 Carbon Filament

### Typical Applications: Valves, Boiler Feed Pumps

#### Service Media & conditions :

Used for High Speed, High Temperature & Pressure applications in sealing Boiler Feed Pumps, Super heated Steam, Chemically Inert to most media, not used for Acids & Oxidising Media.



#### Supply Data:

**Size Range :** 6 x 6 to 40 x 40 mm  
**Form :** Square

#### Technical Data:

<b>Material Number :</b>	<b>FMP 501</b>
<b>Type of Fibre :</b>	Carbon filament Yarn
<b>Carrier Fibre :</b>	-
<b>Type of Core :</b>	Graphite
<b>Metal Insertion/Jacketing</b>	-
<b>Application Limit</b>	-200°C to 600°C
<b>Decomposition :</b>	600°C
<b>Operating Pressure (Max.) Rotating</b>	35 Bar
<b>Operating Pressure (Max.) Oscillating</b>	100 Bar
<b>Max Operating Pressure :</b>	350 Bar
<b>Temperature of Carrier Fibre :</b>	
<b>pH</b>	0 - 14
<b>Density (g/cm<sup>3</sup>)</b>	1.0 -1.1

#### Physical Properties:

Size (mm)	6	8	10	12	16	18	20	25	30	40	
Weight (g/m)	36	64	100	144	256	324	400	625	900	1600	

#### Product versions:

With metal wire insertion-S.S.(FMP 501M) Impregnated with PTFE or Graphite -- To reduce stem friction & corrosion inhibitor.

## 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	Lacquires	●

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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