

FMI is an Italian manufacturing company specialised in the processing of PTFE, graphite and all the main asbestos-free materials used for the production of gasketing materials gaskets and semi finished products of high technical value.

The company's current structure has resulted from progressive developments over the years which have led to the engineering of unique processing and manufacturing methods.

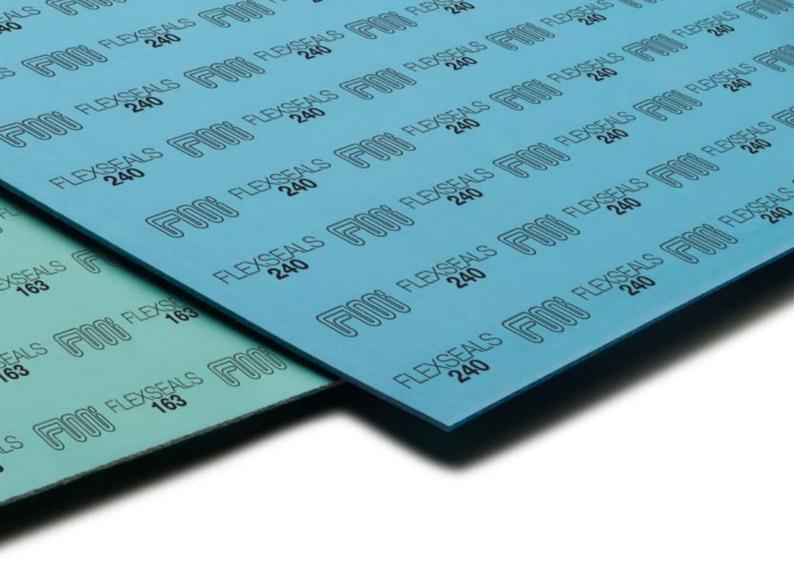
FMI manufactures leading-edge products and innovative solutions which are protected by international patents.

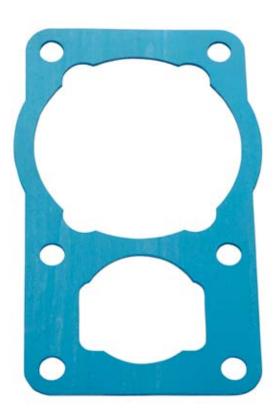
FMI's underlying goal is to provide the best quality, as certified by all major independent examination institutes.

Our products are our best guarantee suitable for all types of customers and applications, both standard and critical.

For a detailed list of the approvals, please visit our dedicated area on www.fmi-spa.com/approvals







The Flexseals® range of products is manufactured from a mixture of organic fibres and rubber binders, which offer great versatility thanks to their highly flexible chemical and physical properties. Since different versions with different filler materials are available, seals are guaranteed to offer outstanding performance with the majority of chemicals and with most temperatures and operating pressures, also thanks to the use of internal reinforcements.

Flexseals® gasketing materials are available with fillers based on synthetic fibres, mineral fibres, aramid fibres and carbon fibres.

All products in this family are designed for maximum versatility and made from the finest materials, to ensure maximum reliability and durability, even in critical sealing applications.

Flexseals® compressed synthetic fibre jointing sheets

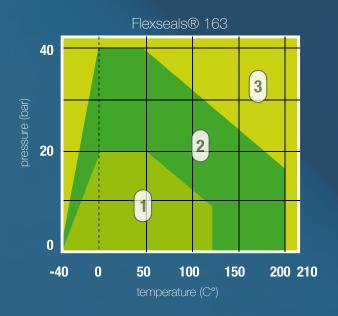
FLEXSEALS®	163	240	280
Colour			
Composition	Organic fibres with NBR/SBR binder	Organic fibres with NBR binder	Organic fibres with NBR binder
Density DIN 28090-2 (g/cm3)	1,7 - 2,1	1,6 - 1,9	1,7 - 2,0
Max working temperature continual (°C)	140	140	250
Max working temperature peak(°C)	210	350	400
Max operating pressure (MPa)	7	10	10
Leakage rate Din 3535-6 (mg*s-1*m-1)	0,1	0,1	0,06
Residual stress* 16h/175°C Din 52913 (MPa)	20	20	30
Compressibility ASTM F 36-J (%)	5 - 15	5 - 15	5 - 15
Recovery ASTM F 36-J (%) min.	50	50	50
ASTM OIL - IRM 903 5h/150°C max(%) ASTM F 146	10	5	3
ASTM FUEL B 5h/23°C max(%) ASTM F 146	15	5	5
Availability			
Sheets size (mm)	1.500x1.500 1.500X3.000	1.500x1.500 1.500X3.000	1.500x1.500 1.500X3.000
Thickness (mm)	0,5 to 5,0	0,5 to 5,0	0,5 to 5,0
Tolerances Sheets size (mm) Thickness (%)	+/- 50 +/- 10	+/- 50 +/- 10	+/- 50 +/- 10

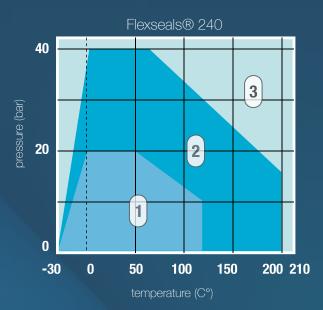
	280 Metallic	330	500	
	Organic fibres with NBR binder and wire mesh insertion	High quality mineral and aramid fibres with NBR binder	Carbon fibres and high quality NBR binder	
	1,9 - 2,2	1,7 - 2,0	1,6 - 1,9	
	250	330	250	
	400	450	450	
	12	12	10	
	0,08	0,04	0,05	
	32	32	32	
	5 - 15	5 - 15	5 - 15	
_	50	50	50	
_	3	3	3	
_	5	5	5	
	1,500x1,500 1,500X3,000 1,0 to 5,0	1,500x1,500 1,500X3,000 0,5 to 5,0	1,500×1,500 1,500X3,000 0,5 to 5,0	
	+/- 50 +/- 10	+/- 50 +/- 10	+/- 50 +/- 10	

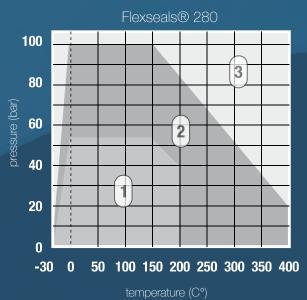


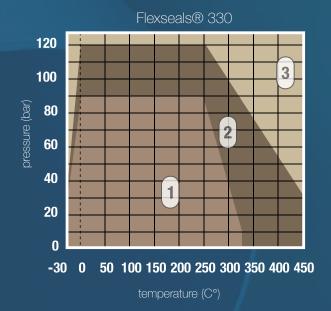


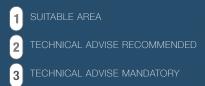
TxP DIAGRAMS 2 mm thickness jointing

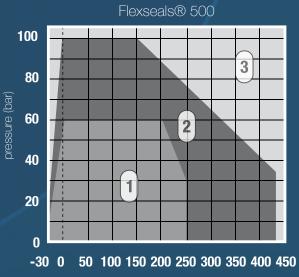












temperature (C°)

Chemical compatibility guide for Flexseals®

	FLEXSEALS® 163	FLEXSEALS® 240	FLEXSEALS® 280	FLEXSEALS® 330	FLEXSEALS® 500
Acetic acid 100% Acetone Acetylene Air	:	:			
Aluminium chloride Ammonia Ammonium hydrogenphospate Barium chloride Benzene			0 0 0		
Boric acid Calcium hydroxide Carbon dioxide Copper sulphate Crude oil					
Cyclohexanol Cyklohexanon Di-butyl phtalate Ethyl ether Ethylen			•		
Ethylene glycol Formic acid 10% Glycerine Hydraulic oil(mineral) Hydrogen chloride dry Hydrochlorid acid 20%					
Chlorine dry Chloroform Iso-Octane Kerosene Methylene chloride					
Natural gas Nitric acid 20% Nitrogen Petrol Petroleum	•		•	•	•
Phenol Potable water Potassium cyanide Potassium iodide Saturated steam Silicon oil			:	:	:
Sodium carbonate Sodium hydrogen carbonate Sodium hydrogen sulphite Sodium hydroxide Sodium chloride Sodium sulphiate	:				
Sugar Sulphuric acid 65% Tartaric acid Tetrachlormethane Toluene	•				
Transformer oil Turpentine Xylene	:	:	•		1

Suitable

Unsuitable

Depends on operating conditions





Via Consolare, 41/43 25030 Zocco di Erbusco - (BS) ITALY Tel. +39 030 7386033 - Fax +39 030 7386035 w w w . f m i - s p a . c o m