







FMI mica-based materials for critical temperature, oxidation-free applications

The state of the s	FM-HIGH®	MICATHERM S15
Colour		
Composition	Expanded Mica and biosoluble fiber bonded to a SS316L tanged core	Flexible Mica sheet bonded with special resin and tanged insert of SS316L
Density DIN 28090-2 (g/cm ³)	1,6 - 1,9	1,65 - 1,95
Max recommended Temperature (°C)	950	900
Max operating pressure (bar)	200	60
Leakage DIN 3535-6 (mg*s ⁻¹ *m ⁻¹)	<0,1*	<0,1*
Creep relaxation DIN 3535-6 (%)	< 18	< 12
Compressibility DIN 3535-6 (%)	> 20	> 16
Recovery DIN 3535-6 (%)	> 2,2	> 3
Availability		
Sheets size (mm)	1.500x1.500 1.000X1.000	1.500×1.500 1.000X1.000
Thickness (mm)	1 to 3	1 to 3
Tolerances	建筑的大型	
Sheets size (mm) Thickness (%)	+/- 50 +/- 10	+/- 50 +/- 10

^{*}Please contact FMI application engineers

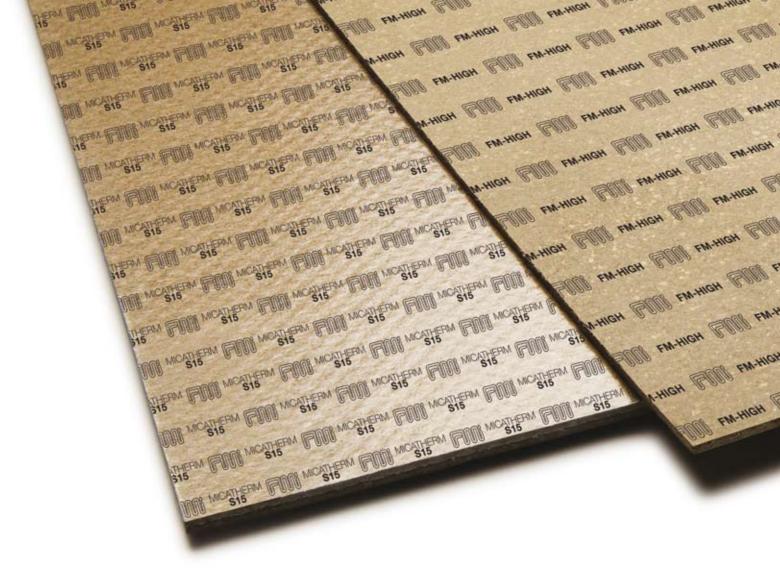


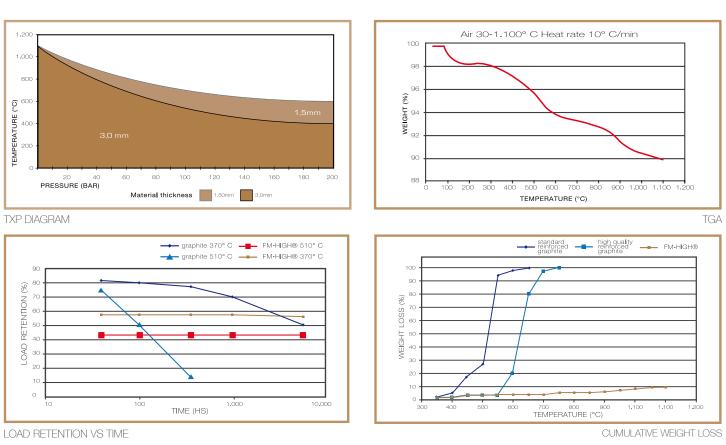
expanded vermiculite



electron microscope image

	SICHEM® S59	SICHEM® S93	
	Modified PTFE with Mica fi ll er	Microcellular Modified PTFE with Mica filler	
STATE OF	2,1	1.2	
	260	260	
	80	50	
	<0.005	<0.001	
	<42	<16	
養殖	>4.8	>50	
	>3.2	>5	1
	1.500x1.500 1.750x1.750 0,75 to 6	1.500x1.500 1.750x1.750 0,75 to 6	
	+/- 50 +/- 10	+/- 50 +/- 10	· 在前上的 · · · · · · · · · · · · · · · · · · ·





All technical data is based on laboratory tests.

FMI spa reserves the right to modify the characteristics of its entire product range without obligation to anyone.



Chemical compatibility guide for FM-HIGH® and Micatherm S15®

Acetic acid glacial •	Dye Liquor •	Methyl alcohol	Sulphur dioxide
Acetone	Ethyl acetate •	Methyl isobutyl ketone	Sulphur trioxide
Acetylene •	Ethyl alcohol •	Methyl methacrylate	Sulphuric acid (concentrated)
Acrylic acid •	Ethylene glycol •	Methylene chloride	
Acrylonitrile •	Ethylene oxide •	Mineral oil	
Air •	Ethyl ether •	Mobiltherm	Turpentine
Alkaline lye •	Ethylene •	Naphthalene	Toluene
Aluminum chloride •	Ethylene chloride •	Natural gas	Towns gas
Ammonia gas •	Fatty acids •	Nitric acid (concentrated 50%)	Transformer oil
Ammonia •	Ferric chloride •	Nitric acid (fuming 95%)	Tributyl phosphate
Amyl acetate •	Fluorine	Nitrogen	Triethanolamine
Amyl alcohol •	Fluorosilicic acid •	Oleum	Urea
Aniline •	Formaldehyde •	Oxygen	Vegetable Oil
Aviation fuel •	Formic acid 85%	Paraffin	Vinyl acetate
Beer •	Formic acid 10%	Pentachlorophenol	Vinyl chloride
Benzene •	Freons	Perchloric acid	Vinylidene chloride
Benzoyl chloride •	Gas oil •	Petroleum	Water
Biphenyl •	Gasoline •	Phenol	Water condenstate
Blast furnace gas •	Heating oil •	Phosgene	Water distilled
Bleach (solution) •	Hydraulic oil (glycol)	Phosphoric acid (concentrated)	Whisky
Boiler feed water •	Hydraulic oil (mineral)	Phosphoric acid (dilute)	Wine
Brine •	Hydraulic oil (phosphate ester) •	Phosphorous	White Spirit
Bromine •	Hydrazine •	Phthalic anhydride	Zylene
Calcium chlorate •	Hydrocarbons (aromatic)	Potassium hydroxide	
Capro-lactam •	Hydrocarbons aliphatic (sat.)	Potassium nitrate	
Carbolic Acid •	Hydrocarbons aliphatic (unsat.)	Potassium permanganate	
Carbon dioxide •	Hydrochloric acid (37% HCl) •	Producer gas	
Carbon disulphide •	Hydrofluoric acid •	Pyridine	
Carbon monoxide •	Hydrogen •	Sea water	
Carbon tetrachloride •	Hydrogen chloride •	Silicone oil	
Chile saltpetre •	Hydrogen fluoride •	Soda ash	
Chlorine, dry •	Hydrogen peroxide •	Sodium bi-carbonate	
Chlorine, wet	Hydrogen sulfide •	Sodium carbonate	•
Chlorinated hydrocarbons •	Isopropyl acetate •	Sodium cyanide	•
Chloroacetic acid •	Isopropyl alcohol •	Sodium hydroxide (40%)	
Chloro benzene •	Kerosene •	Sodium hydroxide (dilute)	•
Chromic acid •	Lime •	Sodium hypochlorite	•
Copper sulphate •	Lubrication oil •	Sodium nitrate	•
Creosote •	Machine oil •	Starch	
Cresol •	Magnesium sulphate •	Steam	•
Crude oil •	Malic acid •	Steam condensate	
Cyclohexanol •	Methane •	Styrene	•
Dichlorobenzene •	Methyl acrylate •	Sulphur	





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