

MATERIAL DATASHEET

V. 11/2016

IFG-5500

Material Information	
Manufacturer	Garlock
Composition	Inorganic fibres, NBR binder
Applications	Water supply, Automotive industry, Ship Building
Approvals	ABS, Garlock Fire Test
Colour	Gray
Thickness (mm)	0,8; 1,5; 3,0
Sheet dimensions (mm)	1 500 x 1 500

Technical Data		
Density, (g/cm ³)	Compressibility, ASTM F36 (%)	Recovery, ASTM F36 (%)
1,76	7-17	50
Tensile strength, ASTM F152 (MPa)	Stress resistance, DIN 52913 (MPa)	Specific leak rate, DIN 3535-4 (cm ³ /min)
10	not defined	0,05
Thickness increase, ASTM F146 (%)	Compression modulus, DIN 28090-2 (%)	Creep relaxation, ASTM F38 (%)
0-10 (oil, 150 °C, 5 h)	not defined	15
0-15 (IRM 903, 150 °C, 5 h)		
Peak temperature (°C/°F)	Continuous temperature (°C/°F)	Maximum pressure (bar/psi)
427/800	288/550	83/1 200

pT-diagram

- General suitability
- Limited suitability
- Not recommended

not defined

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Recommended Media			
Abietic acid	Diesel	Hydrocyanic acid	Polyacrylonitrile
Acetamide	Dowtherm SR-1	Hydrogen	Potassium acetate
Acetylene	E85 fuel	Iron chloride	Potassium bichromate
Air	Ethane	Iron sulfate	Potassium chromate
Alum	Ethanol	Isopropanol	Potassium cyanide
Aluminium chloride	Ethyl cellulose	Kerosene	Potassium dichromate
Aluminium hydroxide	Ethylene	Liquified petroleum gas (LPG)	Potassium sulfate
Aluminium sulfate	Ethylene glycol	Lithium bromide	Propanol
Ammonium chloride	Formaldehyde	Lubricating oils (mineral)	Propylene glycol
Ammonium hydroxide	Freon-11 (R-11)	Lubricating oils (refined)	Seawater / brine
Ammonium phosphate	Freon-112 (R-112)	Magnesium chloride	Sewage
Ammonium sulfate	Freon-113 (R-113)	Magnesium sulfate	Soaps
Amyl alcohol	Freon-114 (R-114)	Mercuric chloride	Sodium bicarbonate
Asphalt	Freon-114B2 (R-114B2)	Mercury	Sodium bisulfate
Barium chloride	Freon-115 (R-115)	Methane	Sodium bisulfite
Barium hydroxide	Freon-12 (R-12)	Methanol	Sodium carbonate
Barium sulfide	Freon-13B1 (R-13B1)	Milk	Sodium chloride
Beer	Freon-141B (R-141B)	Mineral oil	Sodium metaphosphate
Bio-diesel	Freon-142B (R-142B)	Mobiltherm 600	Sodium sulfate
Bitumen	Freon-152A (R-152A)	Mobiltherm 603	Sodium sulfide
Borax	Freon-218 (R-218)	Mobiltherm 605	Sodium thiosulfate
Boric acid	Freon-290 (R-290)	MultiTherm 100	Stearic acid
Brake fluid (mineral)	Freon-316 (C-316)	MultiTherm 503	Tannic acid
Butane	Freon-318 (C-318)	MultiTherm IG-2	Tartaric acid
Butyl alcohol	Freon-32 (R-32)	MultiTherm PG-1	Therminol XP
Butyric acid	Freon-500 (R-500)	Naphtha	Transformer oil (mineral)
Calcium chloride	Freon-502 (R-502)	Natural gas	Transmission fluid
Calcium hydroxide	Freon-62 (HP-62)	Nickel chloride	Trimethylpentane
Calflo AF	Freon-744 (R-744)	Nickel sulfate	Turpentine
Calflo FG	Fuel oil	Nitrogen	UCON heat transfer fluid 500
Calflo HTF	Gasoline	Octadecyl alcohol	UCON process fluid WS
Calflo LT	Gelatin	Octane	Water
Carbon dioxide	Glucose	Oils (essential)	Whiskey
Carbonic acid	Glue, protein base	Oils (vegetable)	White spirits
Castor oil	Glycerine	Palmitic acid	Wine
Cetane	Glycols	Paraffin oil	Xceltherm 600
China wood oil	Grease (petroleum)	Paratherm HE	Zinc chloride
Citric acid	Heptane	Paratherm HF	Zinc sulfate
Copper chloride	Hexadecane	Pentane	

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Copper sulfate	Hexane	Petroleum	
Cyclohexane	Hydraulic oil (mineral)	Pinene	