Garlock
Teil der EnPro-Firmengruppe

THERMa-PUR™ Style 4122

FC, SWG, CMG or KAMM

THERMa-PUR™ is a proprietary gasketing material designed for use in high temperature sealing applications. It is produced using an environmentally friendly solvent-free process and combines a unique formulation with a patent-pending fiber core. THERMa-PUR™ is another innovative Garlock sealing solution that provides more than just temperature resistance.

BENEFITS

Extreme Temperature

» Able to withstand high temperature, whether continuous or in thermal cycling conditions

Oxidation Resistance

» Contains proprietary materials that provide improved weight loss characteristics over other high temperature solutions (see graph).

Hydrophobic & Electrically Insulating

» Resists water and provides electrical isolation thus reducing the possibility of corrosion between flanges made of dissimilar metals

Easy Release from Flanges

» Making removal of gaskets from flanges easy and fast, due to less sticking at high temperatures

Safer Handling

» Patent-pending fiber core makes gaskets safer to handle when compared to traditional high temperature gaskets with steel cores

IDEAL FOR

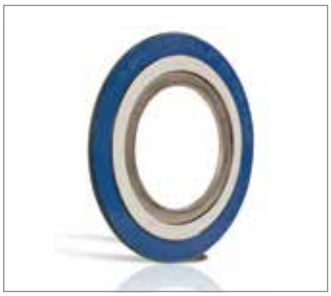
» Marine and Land-based Exhaust Systems
» Biomass Gasification Process
» Oil and Gas Production
» Mineral and Fertilizer Processing
» Incineration Process
» Co-generation Systems
» Turbochargers Equipment
» Process Drying Equipment
» Flare Systems
» Solar Thermal Systems

THERMa-PUR™ IS AVAILABLE AS:

CUT GASKETS (4122-FC)

CORRUGATED METAL GASKET (4122-CMG)

KAMMPROFIL (4122-KAMM)



SPIRAL WOUND GASKET (4122-SWG)

» with standard winding
» with „faced“-version

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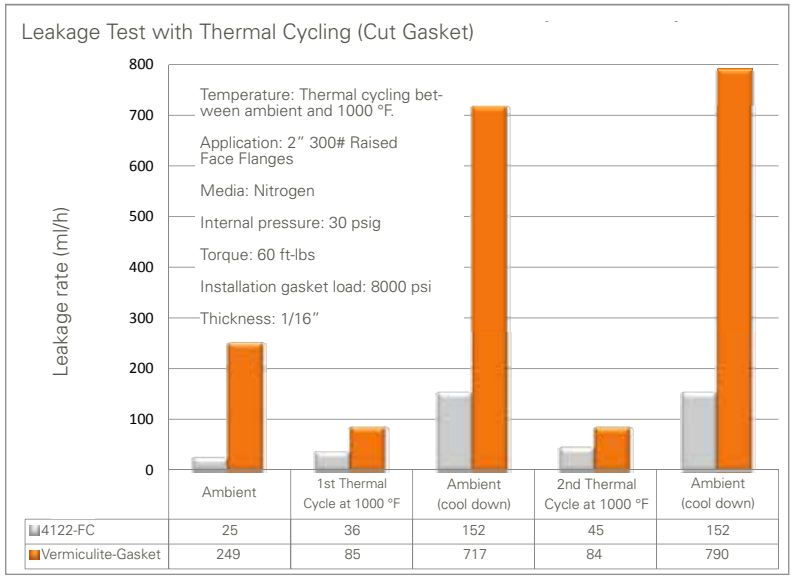
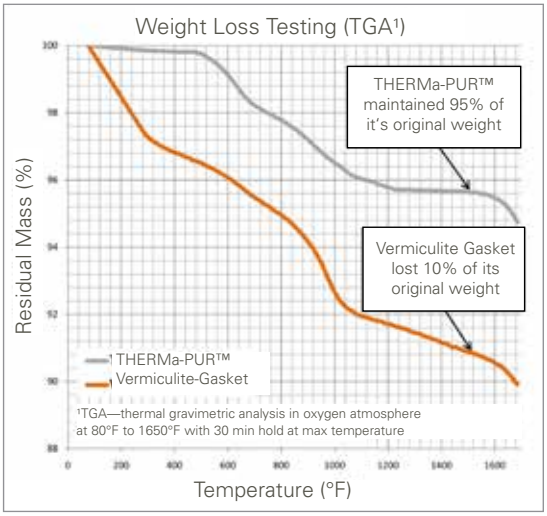
Technical Details

Temperature continuous max.	1000 °C (+1832 °F)
Pressure[1] bar (psig) 4122-FC	34,5 bar (500 psi)
4122-CMG	68,9 bar (1000 psi)
4122-KAMM, 4122 SWG	Equal to flange rating



	Ambient	1st Thermal Cycle at 1000 °F	Ambient (cool down)	2nd Thermal Cycle at 1000 °F	Ambient (cool down)
4122-FC	25	36	152	45	152
Vermiculite-Gasket	249	85	717	84	790



Typical Physical Properties for 4122-FC*:	
ASTM Test Method F36	
Compressibility range, %	35-45
Recovery %	18
ASTM F38	
Creep Relaxation %	25
ASTM F152	
Tensile in N/mm² (psi)	10,34 (1500)
ASTM F1315	
Density g/cm³ (lbs./ft³)	1,52 (95)
ASTM D149	
Dielectric Properties, Volts/mil	100

Notes:

[1] Based on ANSI RF flanges at our preferred torque. When approaching maximum pressure, continuous operating temperature, minimum temperature or 50% of maximum PxT, consult Garlock Engineering.

* This is a general guide and should not be the sole means of selecting or rejecting this material. ASTM test results in accordance with ASTM F-104; properties based on 1/16" (1,6mm) gasket thickness unless otherwise mentioned.

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