

THERMa-PUR™ **Style 4122**

THERMa-PUR™ is a proprietary new 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 yet another innovative Garlock Sealing Technologies sealing solution that provides more than just temperature resistance.

VALUE & 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
- » Easy Release from Flanges Does not stick to flanges making removal of gaskets easy and fast
- » Safer Handling Patent-pending fiber core makes gaskets safer to handle when compared to traditional high temperature gaskets with steel cores

IDEAL FOR

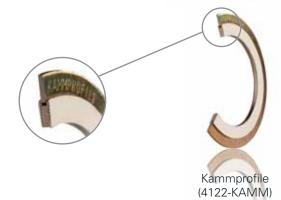
- » Marine and Land-based Exhaust Systems
- » Biomass Gasification Process
- » Oil and Gas Production
- » Mineral and Fertilizer Processing
- » Incineration Process
- » Co-generation Systems
- » Turbochargers Equipment
- » Process Drying Equipment



Cut Gaskets (4122-FC)



Corrugated Metal Gasket (4122-CMG)





TYPICAL PHYSICAL PROPERTIES

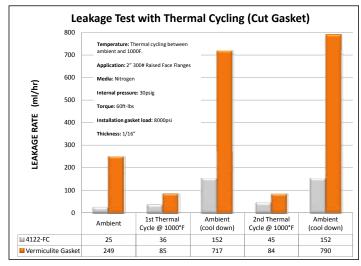
Temperature Continuous max.		+1832°F (1000°C)
Pressure ¹ psig (bar)	4122-FC 4122-CMG 4122-KAMM	500 (34.5) 1000 (68.9) Equal to flange rating
P x T, max.² psig x °F (bar x °F)	4122-FC 4122-CMG 4122-KAMM	150,000 (5,100) 600,000 (21,500) Equal to flange rating
Typical Physical Prop	perties for 4122-FC*:	
ASTM Test Method	F36	
Compressibility, range, %		35-45
Recovery %		18
ASTM F38		
Creep Relaxation, %		25
ASTM F152		
Tensile, w/insert, psi (N/mm²)		1,200 (8.3)
ASTM F1315		
Density, lbs./ft³ (grams/cm³)		85 (1.36)
ASTM D149		
Dielectric Properties, volts/mil.		100

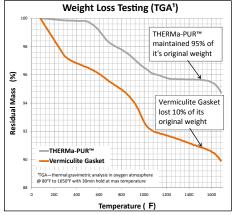
NOTES:

- 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.
 PXT = psig x %T (bar x %C)
- * 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.

OUT PERFORMS

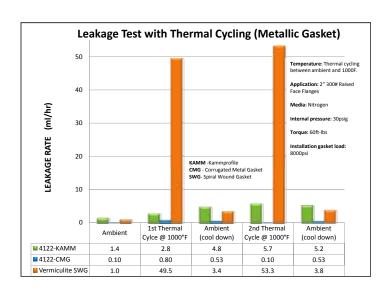
THERMa-PUR™outperformedvermiculitebasedgasketsinlaboratory testing[†]. THERMa-PUR™ showed significantly less leakage even in extreme thermal cycling condition 'For test details, please contact Garlock Engineering





LOW WEIGHT LOSS

THERMa-PUR™ proprietary formulation resists oxidation and has improved weight loss property by almost 2X when compared to other high temp organic based gaskets such as graphite and vermiculite



GSK 3:78

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