

# Garlock IFG® 5500

## Compressed Inorganic Fiber Gasketing



### BENEFITS

#### Tighter Seal

- Inorganic fiber gasketing offers excellent thermal stability with minimal weight loss
- Reduced creep relaxation and improved torque retention provide optimal sealability

#### Temperature Resistant

- Non-oxidizing fibers withstand a continuous operating temperature of up to 550°F (290°C) and maximum spike of 800°F (425°C)
- IFG® 5500 has passed the Garlock Fire Test
- ABS Fire Safe Type Approved

### MEDIA

- Water
- Aliphatic hydrocarbons
- Oils
- Gasoline
- Saturated steam\*
- Inert gases
- Most refrigerants

\*Minimum recommended assembly stress = 4,800 psi. Preferred assembly stress = 6,000 -10,000 psi. Gasket thickness of 1/16" strongly preferred. Retorque the bolts / studs prior to pressurizing the assembly. For saturated steam above 150 psig or superheated steam, consult Garlock Engineering.

### TYPICAL PHYSICAL PROPERTIES

<b>Color</b>	Gray
<b>Binder</b>	Nitrile (NBR)
<b>Sealability</b> (ASTM F37B) <sup>1</sup>	
<b>ASTM Fuel A</b>	0.2 ml/hr
<b>Nitrogen</b>	1.0 ml/hr
<b>Creep Relaxation</b> (ASTM F38)	15%
<b>Compressibility Range</b> (ASTM F36)	7 - 17%
<b>Recovery</b> (ASTM F36)	50%
<b>Tensile Strength</b> across grain (ASTM F152)	1500 psi (10 N/mm <sup>2</sup> )
<b>Density</b>	110 lbs/ft <sup>3</sup> (1.76 g/cm <sup>3</sup> )
<b>Gas Permeability</b> (DIN3535 Part 4) <sup>2</sup>	0.05 cc/min.
<b>Temperature Min / Max:</b>	-100 / 800 (°F)
<b>Temperature Continuous Max:</b>	550 (°F)
<b>Max Pressure:</b>	1200 (PSI)
<b>Maximum PxT 1/16:</b>	400,000 (°F x PSIG)
<b>Maximum PxT 1/8:</b>	275,000 (°F x PSIG)



#### NOTES:

1. ASTM F37B Sealability  
ASTM Fuel A (isooctane): Gasket load = 500 psi (3.5 N/mm<sup>2</sup>),  
Internal pressure = 9.8 psig (0.7 bar)  
Nitrogen: Gasket load = 3000 psi (20.7 N/mm<sup>2</sup>),  
Internal pressure = 30 psig (2 bar)
2. DIN 3535 Part 4 Gas Permeability, cc/min. (1/16" thick)  
Nitrogen: Gasket load = 4640 psi (32 N/mm<sup>2</sup>),  
Internal pressure = 580 psig (40 bar)

\*All styles are furnished with an anti-stick parting agent as standard.

\*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 1/32" (0.8mm) sheet thickness.

World Wide Metric offers **Garlock IFG® Style 5500** in full face and ring type variations for a range of metric JIS and DIN flange and valve configurations. Ideal for oil, steam, water and high temperature applications, they offer great stability with minimal weight loss. With improved retention, our Garlock gaskets provide optimal seal-ability and reduced creep relaxation. Garlock IFG® Style 5500 is available in larger sizes upon request. Garlock IFG® Style 5507 also available upon request. ABS Fire Safe Type Approved.

## DIN

## JIS

Type	Pressure	Size	Item Number
Full Face	PN10	200	GFF-D10-200-AA
		250	GFF-D10-250-AA
		300	GFF-D10-300-AA
		350	GFF-D10-350-AA
	PN16	5	GFF-D16-015-AA
		20	GFF-D16-020-AA
		25	GFF-D16-025-AA
		32	GFF-D16-032-AA
		40	GFF-D16-040-AA
		50	GFF-D16-050-AA
		65	GFF-D16-065-AA
		80	GFF-D16-080-AA
		100	GFF-D16-100-AA
		125	GFF-D16-125-AA
		150	GFF-D16-150-AA
		Ring Type	PN10
250	GRT-D10-250-AA		
300	GRT-D10-300-AA		
PN16	15		GRT-D16-015-AA
	20		GRT-D16-020-AA
	25		GRT-D16-025-AA
	32		GRT-D16-032-AA
	40		GRT-D16-040-AA
	50		GRT-D16-050-AA
	65		GRT-D16-065-AA
	80		GRT-D16-080-AA
	100		GRT-D16-100-AA
	125		GRT-D16-125-AA
	150		GRT-D16-150-AA
	200		GRT-D16-200-AA
	250		GRT-D16-250-AA
	300		GRT-D16-300-AA
	500		GRT-D16-500-AA

Type	Pressure	Size	Item Number	
Full Face	5K	15	GFF-J05-015-AA	
		20	GFF-J05-020-AA	
		25	GFF-J05-025-AA	
		32	GFF-J05-032-AA	
		40	GFF-J05-040-AA	
		50	GFF-J05-050-AA	
		65	GFF-J05-065-AA	
		80	GFF-J05-080-AA	
		100	GFF-J05-100-AA	
		125	GFF-J05-125-AA	
		150	GFF-J05-150-AA	
		200	GFF-J05-200-AA	
		250	GFF-J05-250-AA	
		300	GFF-J05-300-AA	
		350	GFF-J05-350-AA	
		400	GFF-J05-400-AA	
		10K	15	GFF-J10-015-AA
			20	GFF-J10-020-AA
			25	GFF-J10-025-AA
			32	GFF-J10-032-AA
			40	GFF-J10-040-AA
			50	GFF-J10-050-AA
			65	GFF-J10-065-AA
			80	GFF-J10-080-AA
	100		GFF-J10-100-AA	
	125		GFF-J10-125-AA	
	150		GFF-J10-150-AA	
	200		GFF-J10-200-AA	
	250		GFF-J10-250-AA	
	300		GFF-J10-300-AA	
	350		GFF-J10-350-AA	
	550		GFF-J10-550-AA	
	600		GFF-J10-600-AA	
	650		GFF-J10-650-AA	
	1000		GFF-J10-1000-AA	
	16K		15	GFF-J16-015-AA
			20	GFF-J16-020-AA
			25	GFF-J16-025-AA
			32	GFF-J16-032-AA
			40	GFF-J16-040-AA
		50	GFF-J16-050-AA	
		65	GFF-J16-065-AA	
		80	GFF-J16-080-AA	
		100	GFF-J16-100-AA	
		125	GFF-J16-125-AA	
	150	GFF-J16-150-AA		
	200	GFF-J16-200-AA		
	250	GFF-J16-250-AA		
300	GFF-J16-300-AA			

