



The *Flexitallic* Group

**COMPRESSED FIBER
& GRAPHITE SHEET**

YOUR GLOBAL GASKET PROVIDER

Sheet Sizes:
60" x 60", 60" x 120"
Other sizes available on request

Thicknesses:
1/8", 1/32", 1/64", 1/16", 0.005", 1/4"
Other thicknesses available on request

Recommended Surface Finish:
100 - 250 µm

Steel materials recommended only for Class 150 and 300 Flanges.

Properties:

Thickness	in
Density**	g/cc (g/cm ³)
ASTM F19 Compression	%
ASTM F26 Recovery	%
ASTM F152 Cross-Tensile Strength***	psi (MPa)
ASTM F28 B Creep Release	%
ASTM F37-A Swellability (Fluor A 10 ppc-Oxyl Stress 1000 psi)	%/hr
ASTM F146	
Thickness Increase (RM) @ 300°F	%
Thickness Increase (RM) @ 70 - 65°F	%
Weight Increase (RM) @ 300°F	%
Weight Increase (RM) @ 70 - 65°F	%
BB TSM Nitrogen Gas Permeability**	cc/m ² /hr

Gasket Constants:

ASME Y	
ASME Y	psi (MPa)
PTSD-Ga [†]	psi (MPa)
PVHD-g ^{††}	
PTSD-Ga [†]	psi (MPa)

Product Designation:

ASTM F156 (per Colson)	
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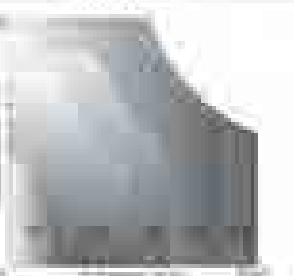
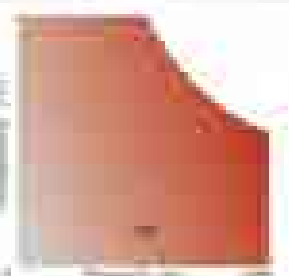
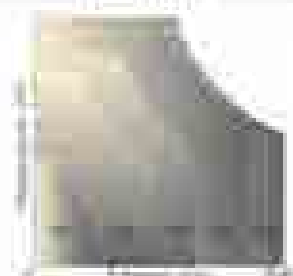
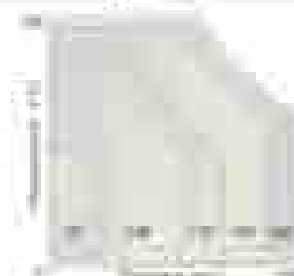
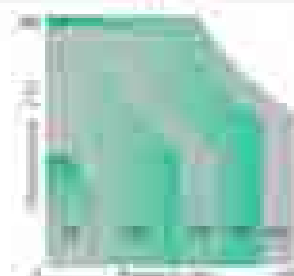
Service Parameters:

gG Range	°F (°C)
Maximum Temperature** @ Minimum Pressure	°F (°C)
Minimum Pressure*	psi (bar)
Temperature/Pressure Limitstop	°F vs. psi

**Fluorpart series for facing material only
†ASTM 3535 for Fluorcarb® ST and SR
††1/16" to SF-3300
***Maximum temperature combination (aircraft and engine exhaust)



Material Description:	SF 2401 Synthetic, NBR	SF 2420 Synthetic, SBR	SF 3300 Aramid, Glass, NBR	SF 3500 Aramid, Glass, NBR	SF 5000 Carbon, Aramid, NBR	Flexicarb® ST Graphite, Tanged 316SS Core	Flexicarb® SR Graphite, Flat 316SS Core
Service & Application:	<ul style="list-style-type: none"> General service Suitable for sealing steam, water, gases, oils, mild solvents and hot acids 	<ul style="list-style-type: none"> BBR board general service steel Suitable for sealing a wide range of chemicals 	<ul style="list-style-type: none"> Top grade general service sheet Superior performance sealing a wide range of chemicals 	<ul style="list-style-type: none"> Increased strength Ideal for use in pumps, especially soft casting Excellent load bearing capability 	<ul style="list-style-type: none"> Especially suitable for sealing caustic liquids and other strong alkalis 	<ul style="list-style-type: none"> Excellent sealing performance Excellent range of chemical and temperature resistance 	<ul style="list-style-type: none"> Excellent sealing performance Excellent range of chemical and temperature resistance
Thickness	0.18	0.12	0.05	0.04	0.02	0.18	0.18
Density**	1.10 (2.2)	1.18 (2.3)	1.12 (2.3)	1.18 (2.4)	1.00 (2.0)	1.0 (2.1)	1.0 (2.1)
ASTM F19 Compression	8	8	12	8	8	28	40
ASTM F26 Recovery	40	45	48	50	50	10	10
ASTM F152 Cross-Tensile Strength***	1015 (7)	1450 (10)	1015 (7)	1450 (10)	1885 (13)	80 (5.5)	100 (7.0)
ASTM F28 B Creep Release	30	20	21	4	24	15	10
ASTM F37-A Swellability (Fluor A 10 ppc-Oxyl Stress 1000 psi)	0	1	1	1	2	40.5	40.5
ASTM F146							
Thickness Increase (RM) @ 300°F	11	8	2	2	2	-	-
Thickness Increase (RM) @ 70 - 65°F	11	20	11	11	8	-	-
Weight Increase (RM) @ 300°F	4	30	11	8	12	-	-
Weight Increase (RM) @ 70 - 65°F	15	19	12	12	13	-	-
BB TSM Nitrogen Gas Permeability**	0.02	0.06	0.80	0.12	0.01	0.1	1.8
Gasket Constants:							
ASME Y	3.2	3.3	3.7	3.7	3.7	2	2
ASME Y	2900 (20)	2900 (20)	3335 (23)	3330 (23)	3005 (21)	2500 (17)	900 (6)
PTSD-Ga [†]	260	260	290 (19)	-	-	1400 (9.7)	118 (8.0)
PVHD-g ^{††}	0.385	-	0.49	-	-	0.30	0.28
PTSD-Ga [†]	2.2%	-	0.034	-	-	0.01 (0.00005)	0.07 (0.0005)
Product Designation:							
ASTM F156 (per Colson)	F1122B10000	G1110000	F12100000*	F12100000*	F12000000	F1200000	F1200000
Service Parameters:							
gG Range	3 - 71	3 - 71	3 - 71	3 - 71	3 - 71	0 - 14	0 - 14
Maximum Temperature** @ Minimum Pressure	662 (350)	710 (400)	624 (340)	624 (340)	624 (340)	642 (340)	642 (340)
Minimum Pressure*	1450 (100)	1450 (100)	2000 (140)	2000 (140)	2000 (140)	+ 2000 (140)	+ 2000 (140)





CALL 832-445-0000

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VISIT www.flexsealindustrial.com

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Flexseal Industrial is a full line gasket and o-ring distributor. We provide a broad range of products including but not limited to Flexitallic spiral wound gaskets, die cut gaskets, sheet material, Flexpro (kammprofile) gaskets, RTJ's and o-ring seals.

We offer superior customer service and are committed to meeting the needs of all your industrial sealing applications.

