

M-47 to M-48 GASKET SPECIFICATIONS

Gaskets - Technical Specifications

Fiber Full Face Gaskets, Temperature Rating: 1800° F

Physical Test Properties	Specification Range	Nominal Test Values	Test Method
Compression @ 34.5 MPa (5000psi)	25-40%	35%	ASTM F-806
Recovery @ 34.5 MPa (5000 psi)	30% Min	34%	ASTM F-806
Ignition Loss (1 hour @ 1500° F)	30% Max	27%	ASTM F-495
Air Aging 70 hrs @ 540° C (1000° F) Thickness Loss	0-10%	6%	ASTM D-573
Air Aging 70 hrs @ 540° C (1000° F) Weight Loss	20% Max	11%	

Fluid Immersions (22 hours @ 78° - 85° F)

Fluid Resistance ASTM IRM903 Oil - Thickness Change	12-20%	12%	ASTM F-146
Fluid Resistance ASTM IRM903 Oil - Weight Change	70% ▲ Max.	58%	ASTM F-146
Fluid Resistance ASTM Fuel B - Thickness Change	10-20%	15%	ASTM F-146
Fluid Resistance ASTM Fuel B - Weight Change	50% ▲ Max.	45%	ASTM F-146

Fiber full face gaskets use a 0.008" ETP (electrolytic tin plate) low carbon steel core. The core is then laminated on two sides with a facing composed of heat resistant vermiculite and ceramic fibers chemically bonded with an NBR binder. This gasket is designed for hot gas applications where extreme heat is present. The fiber facings are mechanically bonded without the use of any adhesives, providing stability and integrity even when exposed to high heat, scrubbing, and vibration. Gasket is asbestos-free. Its color is light brown.

M-47 and M-47L NBG KITS

Nut Bolt Gasket Kits

Fiber Full Face Engine Gasket Kits (1 gasket per set)

Part Number	Engine	Size	Bolt		Bolts/Nuts per Set
			Diameter	Length	
M-47-CAT-400-FF	CAT	4	0.50	2	4
M-47-CAT-500-FF	CAT	5	0.625	2	4
M-47-CAT-600-FF	CAT	6	0.625	2	4
M-47-CAT-800-FF	CAT	8	0.375	2	8
M-47-CAT-1000-FF	CAT	10	0.375	2	12
M-47-CAT-1000-51001	CAT	10	0.50	2	12
M-47-CAT-1200-FF	CAT	12	0.375	2	12
M-47-CAT-1400-FF	CAT	14	0.50	2	12
M-47-CUM-600-FF	CUM	6	0.375	2	8
M-47-MTU-600-FF	MTU	6	0.375	2	6
M-47-MTU-800-FF	MTU	8	0.375	2	8
M-47-MTU-1000-FF	MTU	10	0.50	2	8

Grade 2 Zinc plated nuts/bolts. Available in 304 and 316 stainless steel.
 Fiber gasket rated up to 1,800° F for continuous use, 2,300° F maximum temperature.
 One (1) gasket per set.



Fiber Full Face Gasket Kits (1 gasket per set)

Standard	Bolt		Bolt/Nuts	Bolt	Long	Bolt
Part Number	Size	Diameter	per Set	Length	Part Number	Length
M-47-FF-200	2	0.625	4	2	M-47L-FF-200	3
M-47-FF-250	2.5	0.625	4	2	M-47L-FF-250	3
M-47-FF-300	3	0.625	4	2	M-47L-FF-300	3
M-47-FF-350	3.5	0.625	8	2	M-47L-FF-350	3
M-47-FF-400	4	0.625	8	2	M-47L-FF-400	3
M-47-FF-500	5	0.75	8	2	M-47L-FF-500	3
M-47-FF-600	6	0.75	8	2	M-47L-FF-600	3
M-47-FF-800	8	0.75	8	2	M-47L-FF-800	3
M-47-FF-1000	10	0.875	12	2.5	M-47L-FF-1000	3.5
M-47-FF-1200	12	0.875	12	2.5	M-47L-FF-1200	3.5
M-47-FF-1400	14	1.00	12	2.5	M-47L-FF-1400	3.5
M-47-FF-1600	16	1.00	16	2.5	M-47L-FF-1600	3.5
M-47-FF-1800	18	1.125	16	3	M-47L-FF-1800	4
M-47-FF-2000	20	1.125	20	3	M-47L-FF-2000	4
M-47-FF-2200	22	1.250	20	3	M-47L-FF-2200	4
M-47-FF-2400	24	1.250	20	3	M-47L-FF-2400	4
M-47-FF-2600	26	1.250	24	3	M-47L-FF-2600	4
M-47-FF-2800	28	1.250	28	3	M-47L-FF-2800	4
M-47-FF-3000	30	1.250	28	3	M-47L-FF-3000	4
M-47-FF-3400	34	1.50	32	4	M-47L-FF-3400	4.5
M-47-FF-3600	36	1.50	32	4	M-47L-FF-3600	4.5

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Standard Bolt Torque Specifications

Nominal Bolt Diameter (in.)	Dry Torque (Ft-Lbs)
0.375	20
0.50	47
0.625	96
0.75	155
0.875	206
1.00	310
1.125	480
1.250	375
1.50	1100

All dimensions are in inches. Larger sizes available.



M-48 GASKETS

Full Fiber Face Gaskets

Fiber Full Face Engine Gaskets

Part Number	Engine	Size	ID	OD	THK
M-48-CAT-400-FF	CAT	4	4.1	5.5	0.0625
M-48-CAT-500-FF	CAT	5	5.1	6.5	0.0625
M-48-CAT-600-FF	CAT	6	6.1	7.8	0.0625
M-48-CAT-800-FF	CAT	8	8.1	11	0.0625
M-48-CAT-1000-FF	CAT	10	10.1	13.5	0.0625
M-48-CAT-1000-3516B	CAT	10	10.3	14	0.0625
M-48-CAT-1200-FF	CAT	12	12.1	16	0.0625
M-48-CAT-1400-FF	CAT	14	16.93	18.5	0.0625
M-48-CUM-600-FF	CUM	6	6	8	0.0625
M-48-MTU-600-FF	MTU	6	6.1	10.5	0.0625
M-48-MTU-800-FF	MTU	8	8.5	12.5	0.0625
M-48-MTU-1000-FF	MTU	10	10	13	0.0625



Fiber gasket rated up to 1,800° F for continuous use, 2,300° F maximum temperature.

Fiber Full Face Gaskets

Part Number	Size	ID	OD	THK
M-48-FF-200	2	2	6	0.0625
M-48-FF-250	2.5	2.5	7	0.0625
M-48-FF-300	3	3	8.5	0.0625
M-48-FF-350	3.5	3.5	8.5	0.0625
M-48-FF-400	4	4.5	9	0.0625
M-48-FF-500	5	5.6	10	0.0625
M-48-FF-600	6	6.6	11	0.0625
M-48-FF-800	8	8.6	13.5	0.0625
M-48-FF-1000	10	10.8	16	0.0625
M-48-FF-1200	12	12.8	19	0.0625
M-48-FF-1400	14	14	21	0.0625
M-48-FF-1600	16	16	23.5	0.0625
M-48-FF-1800	18	18	25	0.0625
M-48-FF-2000	20	20	27.5	0.0625
M-48-FF-2200	22	22	29.5	0.0625
M-48-FF-2400	24	24	32	0.0625
M-48-FF-2600	26	26	34.5	0.0625
M-48-FF-2800	28	28	36.5	0.0625
M-48-FF-3000	30	30	38.8	0.0625
M-48-FF-3400	34	34	43.8	0.0625
M-48-FF-3600	36	36	46	0.0625



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All dimensions are in inches. Larger sizes available.