



Comprehensive
Fastening
Solutions

Manufacturer of Industrial Fasteners

ASTM F436 Type 1

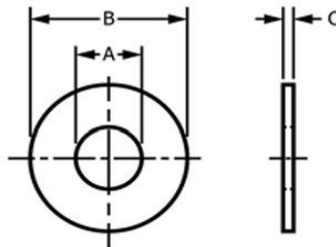
ASTM F436M type 1 is a standard material and dimensional specification for hardened steel washers, intended for general-purpose mechanical and structural use with bolts, nuts, studs, and other internally and externally threaded fasteners. Find chemical, mechanical and dimensional requirements for F436M type 1 hardened steel washers for use with fasteners having nominal thread diameters of M12 through M100. Boltport manufactures and stocks full range of type 1 hardened steel washers to ASTM F436M specification.

Chemical Composition

Element	P	S
Min, %
Max, %	0.05	0.06

Mechanical Properties

Surface	Q & T	Carburized
Plain	38 - 45 HRC	69 - 73 HRA
Hot Dip Galvanized	26 - 45 HRC	
Mechanical Galvanized	38 - 45 HRC	



Nominal Size, mm	Inside Diameter (A), mm		Outside Diameter (B), mm		Thickness (C), mm	
	max	min	max	min	max	min
12	14.4	14	27	25.7	4.6	3.1
14	16.4	16	30	28.7	4.6	3.1
16	18.4	18	34	32.4	4.6	3.1
20	22.5	22	42	40.4	4.6	3.1
22	24.5	24	44	42.4	4.6	3.4
24	26.5	26	50	48.4	4.6	3.4
27	30.5	30	56	54.1	4.6	3.4
30	33.6	33	60	58.1	4.6	3.4
36	39.6	39	72	70.1	4.6	3.4
42	45.6	45	84	81.8	7.2	4.6
48	52.7	52	95	92.8	7.2	4.6
56	62.7	62	107	104.8	8.7	6.1
64	70.7	70	118	115.9	8.7	6.1
72	78.7	77.8	130	127.5	8.7	6.1
80	86.9	86	142	139.5	8.7	6.1
90	96.9	96	159	156.5	8.7	6.1
100	107.9	107	176	173.5	8.7	6.1

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