

ASTM F436 specification covers the chemical, mechanical, and dimensional requirements for hardened steel washers for use with fasteners having nominal thread diameters of 1/4 through 4 in. These washers are intended for general-purpose mechanical and structural use with bolts, nuts, studs, and other internally and externally threaded fasteners. These washers are suitable for use with fasteners covered in Specifications A325, A354, A449, and A490. The washers are designated by type denoting the material and by style denoting the shape.

Type 3—Weathering steel.

Type 1—Carbon steel.

Chemical Properties

F436M Washer Dimensions

		Nominal W		Nasher Size	M16	M	
	Р	S	d1		max	18.4	2
	Max	Max			min	18.0	2
	0.050	0.060	66	d2	max	34.0	4
		-	02		min	32.4	4
					1	1	

Nominal	Washer Size	M16	M20	M22	M24	M27	M30	M36
d1	max	18.4	22.5	24.5	26.5	30.5	33.6	39.6
u	min	18.0	22.0	24.0	26.0	30.0	33.0	39.0
d2	max	34.0	42.0	44.0	50.0	56.0	60.0	72.0
uz	min	32.4	40.4	42.4	48.4	54.1	58.1	71.0
h	max	4.6	4.6	4.6	4.6	4.6	4.6	4.6
h	min	3.1	3.1	3.4	3.4	3.4	3.4	3.4

Characteristic Standard

Materials&Manufacture	ASTM F436M
FinishCoatings(SelfColour/Black)	ASTM F436M
Mechanical Properties	ASTM F436M
Dimensions&Tolerances	ASTM F436M
Workmanship	ASTM F436M
Product marking	ASTM F436M

F436 Mechanical Properties

	Hardness (HRC)			
Nominal Washer Size	Self Colo	ur/Black		
	min	max		
M16 to M36 inclusive	38	45		

Heat Treatment

HARDENED

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