

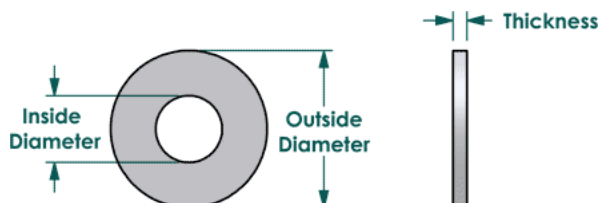


P R O D U C T D A T A S H E E T

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F436 Structural Washers - Inch Series

1.0 Dimensions: As Per ASTM F436/F436M.



Nominal Washer Size	Inside Diameter (ID)			Outside Diameter (OD)			Thickness	
	Nominal	Max	Min	Nominal	Max	Min	Max	Min
1/4	0.281	0.313	0.281	0.625	0.657	0.593	0.080	0.051
5/16	0.344	0.376	0.344	0.688	0.720	0.656	0.080	0.051
3/8	0.406	0.438	0.406	0.813	0.845	0.781	0.080	0.051
7/16	0.469	0.501	0.469	0.922	0.954	0.890	0.080	0.051
1/2	0.531	0.563	0.531	1.063	1.095	1.031	0.177	0.097
9/16	0.625	0.657	0.625	1.188	1.220	1.156	0.177	0.110
5/8	0.688	0.720	0.688	1.313	1.345	1.281	0.177	0.122
3/4	0.813	0.845	0.813	1.468	1.500	1.436	0.177	0.122
7/8	0.938	0.970	0.938	1.750	1.782	1.718	0.177	0.136
1	1.063	1.126	1.063	2.000	2.063	1.937	0.177	0.136
1-1/8	1.188	1.251	1.188	2.250	2.313	2.187	0.177	0.136
1-1/4	1.375	1.438	1.375	2.500	2.563	2.437	0.177	0.136
1-3/8	1.500	1.563	1.500	2.750	2.813	2.687	0.177	0.136
1-1/2	1.625	1.688	1.625	3.000	3.063	2.937	0.177	0.136
1-3/4	1.875	1.938	1.875	3.375	3.438	3.312	0.280	0.178
2	2.125	2.188	2.125	3.750	3.813	3.687	0.280	0.178
2-1/4	2.375	2.438	2.375	4.000	4.063	3.937	0.340	0.240
2-1/2	2.625	2.688	2.625	4.500	4.563	4.437	0.340	0.240
2-3/4	2.875	2.938	2.875	5.000	5.063	4.937	0.340	0.240
3	3.125	3.188	3.125	5.500	5.563	5.437	0.340	0.240



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2.0 Mechanical Properties:

Steel Type 1: As per ASTM F436/F436M. Hardness 38 to 45 HRC, except for hot dip galvanized washers the hardness is 26 to 45 HRC. Washers have to be marked without fail. Marking can be any symbol or any distinguishing mark to identify the manufacturer. Marking should be depressed on one side of the washer.

3.0 Surface Finish: Plain / Zinc / HDG. Zinc & HDG details given in table below.

Properties	Zinc Yellow	Hot Dip Galvanized
Type	Hexavalent (Cr+6)	RoHS Complaint
Color	Yellow	
Minimum Coating Thickness	0.0001 " /3 Microns or 0.0002" / 5 Microns	Washers under 3/16 inch in thickness: 0.0017" (43 microns) and washers 3/16 inch & 1/4 inch thickness 0.0020" (50 microns).
Specification	ASTM F1941 / F1941M. Fe/Zn 3C or Fe/Zn 5C. ASTM B633 SC1 (0.0002" or 5 microns) Type II	ASTM F2329 /F2329M or ASTM A153/ A153M.