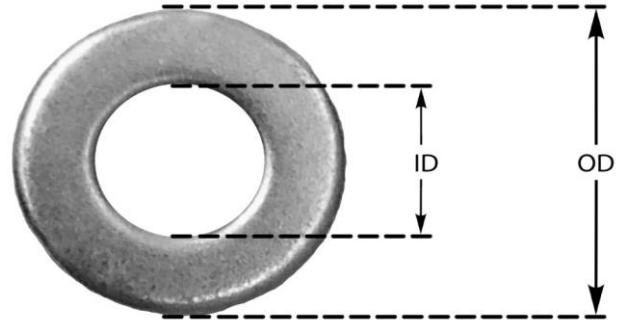




SAE THROUGH-HARDENED FLAT WASHERS



SAE THROUGH-HARDENED FLAT WASHERS									
Bolt Size	Outside Diameter			Inside Diameter			Thickness		Approximate Number per 50 Lbs.
	Nominal	Max	Min	Nominal	Max	Min	Max	Min	
6	3/8	0.390	0.370	5/32	0.164	0.151	0.065	0.036	39,500
8	7/16	0.453	0.433	3/16	0.196	0.183	0.065	0.036	29,500
10	1/2	0.515	0.495	7/32	0.227	0.214	0.065	0.036	22,750
12	9/16	0.577	0.557	1/4	0.265	0.245	0.080	0.051	14,700
1/4	5/8	0.640	0.620	9/32	0.296	0.276	0.072	0.055	10,000
5/16	11/16	0.703	0.681	11/32	0.359	0.339	0.072	0.055	10,000
3/8	13/16	0.827	0.805	13/32	0.419	0.401	0.072	0.055	7,000
7/16	59/64	0.937	0.915	15/32	0.484	0.464	0.072	0.055	5,000
1/2	1-1/16	1.092	1.055	17/32	0.546	0.526	0.121	0.097	2,425
9/16	1-3/16	1.186	1.149	19/32	0.609	0.589	0.121	0.097	2,250
5/8	1-5/16	1.342	1.305	21/32	0.686	0.649	0.146	0.122	1,340
3/4	1-15/32	1.499	1.462	13/16	0.842	0.805	0.146	0.122	1,120
7/8	1-3/4	1.780	1.743	15/16	0.968	0.931	0.160	0.136	695
1	2	2.030	1.993	1-1/16	1.092	1.055	0.160	0.136	555
1-1/8	2-1/4	2.280	2.243	1-1/4	1.280	1.243	0.160	0.136	435
1-1/4	2-1/2	2.530	2.493	1-3/8	1.405	1.368	0.160	0.136	350
1-1/2	3	3.030	2.993	1-5/8	1.655	1.618	0.160	0.136	240
1-3/4	3-3/8	3.405	3.368	1-7/8	1.905	1.868	0.201	0.178	150
2	3-3/4	3.780	3.748	2-1/8	2.155	2.118	0.201	0.178	125
Description	Similar dimensions to the SAE Low Carbon Flat Washer, but with tighter tolerances on thickness, and, manufactured from a higher grade of steel and heat-treated.								
Application	Designed to perform the same functions as SAE Low Carbon Washers, but for use specifically with high-strength, hardened steel, Hex Cap Screws.								
Material	SAE 1035 - 1050 Steel								
Hardness	Rockwell C38 - 45								

