



USS THROUGH-HARDENED FLAT WASHERS



USS THROUGH-HARDENED FLAT WASHERS									
Bolt Size	Outside Diameter			Inside Diameter			Thickness		Approximate Number per 50 Lbs.
	Nominal	Max	Min	Nominal	Max	Min	Max	Min	
1/4	3/4	0.749	0.727	5/16	0.327	0.307	0.072	0.055	7,500
5/16	7/8	0.905	0.868	3/8	0.390	0.370	0.080	0.064	5,000
3/8	1	1.030	0.993	7/16	0.453	0.433	0.080	0.064	3,500
7/16	1-1/4	1.280	1.243	1/2	0.515	0.495	0.080	0.064	2,500
1/2	1-3/8	1.405	1.368	9/16	0.577	0.557	0.121	0.097	1,500
9/16	1-1/2	1.499	1.462	5/8	0.640	0.620	0.121	0.097	1,100
5/8	1-3/4	1.780	1.743	21/32	0.687	0.649	0.146	0.122	700
3/4	2	2.030	1.993	13/16	0.842	0.805	0.146	0.122	500
7/8	2-1/4	2.280	2.243	15/16	0.968	0.931	0.160	0.136	350
1	2-1/2	2.530	2.493	1-1/16	1.092	1.055	0.160	0.136	300
1-1/8	2-3/4	2.780	2.743	1-1/4	1.280	1.243	0.160	0.136	250
1-1/4	3	3.030	2.993	1-3/8	1.405	1.368	0.160	0.136	200
1-1/2	3-1/2	3.545	3.490	1-5/8	1.670	1.615	0.160	0.136	150
Description	Similar dimensions to the USS 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 USS Low Carbon Washers, but for use specifically with high-strength, hardened steel, Hex Cap Screws.								
Material	SAE 1035 - 1050 Steel								
Hardness	Rockwell C38 - 45								