



| USS THROUGH-HARDENED FLAT WASHERS-EXTRA THICK | | | | | | | | | ANSI B18.22.1, Wrought Washer |
|---|------------------|-------|-------|-----------------|-------|-------|-----------|------|----------------------------------|
| Bolt Size | Outside Diameter | | | Inside Diameter | | | Thickness | | Approximate Number per 50 Pounds |
| | Nominal | Max | Min | Nominal | Max | Min | Max | Min | |
| 1/4 | 3/4 | 0.749 | 0.727 | 5/16 | 0.327 | 0.307 | .080 | .064 | 6600 |
| 5/16 | 7/8 | 0.905 | 0.868 | 3/8 | 0.390 | 0.370 | .093 | .079 | 4200 |
| 3/8 | 1 | 1.030 | 0.993 | 7/16 | 0.453 | 0.433 | .093 | .079 | 3250 |
| 7/16 | 1-1/4 | 1.280 | 1.243 | 1/2 | 0.515 | 0.495 | .106 | .090 | 1750 |
| 1/2 | 1-3/8 | 1.405 | 1.368 | 9/16 | 0.577 | 0.557 | .146 | .122 | 1100 |
| 9/16 | 1-1/2 | 1.499 | 1.462 | 5/8 | 0.640 | 0.620 | .146 | .122 | 950 |
| 5/8 | 1-3/4 | 1.780 | 1.743 | 21/32 | 0.687 | 0.649 | .160 | .136 | 550 |
| 3/4 | 2 | 2.030 | 1.993 | 13/16 | 0.842 | 0.805 | .160 | .136 | 450 |
| 7/8 | 2-1/4 | 2.280 | 2.243 | 15/16 | 0.968 | 0.931 | .160 | .136 | 375 |
| 1 | 2-1/2 | 2.530 | 2.493 | 1-1/16 | 1.092 | 1.055 | .160 | .136 | 300 |

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| Description | Has identical inside and outside diameters as USS thru-hardened washer, but can be as much as 50% thicker. They are manufactured from a medium grade of steel and heat-treated. |
| Applications/ Advantages | Designed for heavy duty use in machinery construction, assembly, in-plant maintenance and building construction |
| Material | SAE 1035 - 1050 steel |
| Hardness | Rockwell C38 - 45 |
| Plating | Parts are mechanically zinc yellow plated. |