

INTERNAL/EXTERNAL TOOTH LOCK WASHERS ASME B18.21.1-1999

Steel & Stainless Steel Internal/External Combination Tooth Lockwashers



Description:

A locking washer with teeth or prongs which extend outward from the outside edge of the washer as well as on the inside edge. This maintains essential tension and opposes any loosening influence on the fastener. The flexed teeth absorb shock, vibration and slipping.

Applications:

The combination tooth washer is preferred when a larger bearing surface is required. It is also often used when there is an oversized hole.

Materials:

Carbon Steel: SAE 1050 - 1065 spring steel

18-8 Stainless Steel: SAE 301 - 305

Hardness:

Carbon Steel: Rockwell C40 - 50

18-8 Stainless Steel: Rockwell C20 - 45

Product Line Codes:

Style:

Steel Black Oxide:

Steel Yellow Zinc:

Steel Zinc:

18-8 Stainless Steel:

Code:

[WA044](#)

[WA045](#)

[WA046](#)

[ST214](#)

Specifications

Nominal Washer Size	Inside Diameter		Outside Diameter		Thickness		
	Max	Min	Max	Min	Max	Min	
#4	0.112	0.123	0.115	0.475	0.460	0.021	0.016
#6	0.138	0.150	0.141	0.510	0.495	0.028	0.023
#8	0.164	0.176	0.168	0.610	0.580	0.034	0.028
#10	0.190	0.204	0.195	0.610	0.580	0.034	0.028
1/4"	0.250	0.267	0.256	0.760	0.725	0.040	0.032
5/16"	0.312	0.332	0.320	0.900	0.865	0.040	0.032
3/8"	0.375	0.398	0.384	0.985	0.965	0.045	0.037
7/16"	0.438	0.464	0.448	1.070	1.045	0.050	0.042
1/2"	0.500	0.530	0.513	1.260	1.220	0.055	0.047
5/8"	0.625	0.663	0.640	1.410	1.380	0.060	0.052

unless otherwise specified, all dimensions are in inches

