

INTERNAL TOOTH LOCK WASHERS ASME B18.21.1-1999

Steel & Stainless Steel Internal Tooth Lockwashers

**Description:**

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

Applications:

The internal tooth washer is the preferred lock washer when finished appearance is critical and the teeth must be hidden under the head of the screw to avoid scratching or snagging. Also recommended for use with small heads screws (such as fillister).

Materials:

Carbon Steel: SAE 1050 - 1065 spring steel.
18-8 Stainless Steel: SAE 301 - 305
316 Stainless Steel: SAE 316
410 Stainless Steel: SAE 410

Hardness:

Carbon Steel: Rockwell C40 - 50
18-8 Stainless Steel: Rockwell C20 - 45
410 Stainless Steel: Rockwell C40 - 50

Product Line Codes:

Style:	Code:
Steel Black Zinc:	WA051
Steel Black Oxide:	WA052
Steel Yellow Zinc:	WA053
Steel Zinc:	WA054
18-8 Stainless Steel:	ST218
410 Stainless Steel:	ST219

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Specifications

Nominal Washer Size		Inside Diameter		Outside Diameter		Thickness	
		Max	Min	Max	Min	Max	Min
#2	0.086	0.095	0.089	0.200	0.175	0.016	0.010
#3	0.099	0.109	0.102	0.232	0.215	0.016	0.010
#4	0.112	0.123	0.115	0.270	0.245	0.018	0.012
#5	0.125	0.136	0.129	0.280	0.255	0.020	0.014
#6	0.138	0.150	0.141	0.295	0.275	0.022	0.016
#8	0.164	0.176	0.168	0.340	0.325	0.023	0.018
#10	0.190	0.204	0.195	0.381	0.365	0.024	0.018
#12	0.216	0.231	0.221	0.410	0.394	0.027	0.020
1/4"	0.250	0.267	0.256	0.478	0.460	0.028	0.023
5/16"	0.312	0.332	0.320	0.610	0.594	0.034	0.028
3/8"	0.375	0.398	0.384	0.692	0.670	0.040	0.032
7/16"	0.438	0.464	0.448	0.789	0.740	0.040	0.032
1/2"	0.500	0.530	0.512	0.900	0.867	0.045	0.037
9/16"	0.563	0.596	0.576	0.985	0.957	0.045	0.037
5/8"	0.625	0.663	0.640	1.071	1.045	0.050	0.042
3/4"	0.750	0.795	0.769	1.245	1.220	0.055	0.047
7/8"	0.875	0.927	0.894	1.410	1.364	0.060	0.052
1"	1.000	1.060	1.019	1.637	1.590	0.067	0.059

unless otherwise specified, all dimensions are in inches