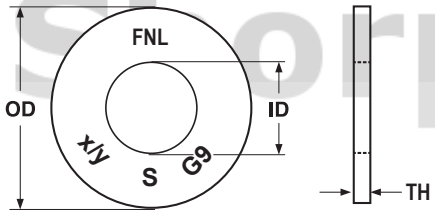
For Grade-9 Applications
SAE THROUGH-HARDENED



SAE Washers for use with Grade-9 Applications

Bolt Size	Outside Diameter			Inside Diameter		Thickness	
	Nominal	Max	Min	Max	Min	Max	Min
1/4	5/8	0.635	0.615	0.276	0.266	.080	.065
5/16	11/16	0.698	0.678	0.339	0.329	.093	.079
3/8	13/16	0.823	0.803	0.401	0.391	.093	.079
7/16	59/64	0.933	0.913	0.464	0.454	.106	.090
1/2	1-1/16	1.073	1.053	0.531	0.521	.146	.122
5/8	1-5/16	1.323	1.303	0.651	0.641	.152	.136
3/4	1-1/2	1.478	1.458	0.780	0.770	.160	.136

Description	Similar to the USS washer designed for Grade-9 applications, but with a smaller outside diameter.
Applications/ Advantages	Designed for use with Grade-9 cap screws and nuts in harsh environmental and fatigue conditions.
Material	SAE 1035 - 1075 carbon or alloy steel
Hardness	Rockwell C38 - 45
Plating	Parts have an EcoGuard™ 1000-hour corrosion resistant finish that is grayish silver in color.

Shorpoen