

Technical Information

FEELER GAGE/THICKNESS GAGE

Manufactured from the highest quality C 1095 high carbon steel, hardened and tempered to RC 48-52. This material is ground then polished to meet exacting tolerances. Both coils and strips are clearly etched with thickness every six inches.

THICKNESS TOLERANCE

.001	+/- .0001	.008 to .009	+/- .00031
.0015	+/- .00012	.010 to .012	+/- .00035
.002	+/- .00016	.013 to .015	+/- .00043
.0025 to .004	+/- .0002	.016 to .019	+/- .00047
.005 to .006	+/- .00024	.020 to .025	+/- .00050
.007	+/- .00028	.026 to .040	+/- .00060

STAINLESS FEELER GAGE

Meets the same chemical properties and tolerance specifications as **Type 304**, full hard stainless shim.

STAINLESS SHIM STOCK

Type 301, 302, 304 & 316 full hard material all have a hardness range of RC 40-45.

Type 301 stainless has a nominal composition of 17% chromium and 7% nickel. It meets SAE 30301, ASTM-A-666, & AMS-5519.

301 CHEMICAL PROPERTIES

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	N
.15	2.0	.045	.030	.75	16/18	6.0/8.0	.75	.75	.10

Type 302, 304 stainless are variations of the 18% chromium and 8% nickel alloy (commonly referred to as 18/8). They meet ASTM-A-666, and AMS-5906 and AMS-5913 respectively.

302 CHEMICAL PROPERTIES

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	N
.15	2.0	.045	.030	1.0	17/19	8.0/10.0	.75	.75	.10

304 CHEMICAL PROPERTIES

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	N
.08	2.0	.045	.030	1.0	18/20	8.0/10.50	.75	.75	.10

Type 316 is a molybdenum-bearing austenitic stainless steel and is more resistant to corrosion than 304. It meets SAE 30316.

316 CHEMICAL PROPERTIES

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	N
.08	2.0	.040	.030	1.0	16/18	10.0/14.0	2.0/3.0	.75	-

STANDARD THICKNESS TOLERANCES STAINLESS SHIM

THICK.	TOLERANCE	THICK.	TOLERANCE
.0005	+/- .000025	.008	+/- .0004
.001	.00005	.009	.00045
.0015	.00007	.010	.0005
.002	.0001	.012	.0006
.003	.00015	.015	.0009
.004	.0002	.020	.0010
.005	.00025	.025	.0010
.006	.0003	.031	.0010
.007	.00035		

STANDARD WIDTH TOLERANCE IS +/- .005

BRASS SHIM STOCK

A cold rolled, half hard alloy with a R30 T hardness range of 56/68. meets SAE 260, ASTM B36 #6, AMS 4507-C, QQ-B-613b

CHEMICAL PROPERTIES

Cu	Zn
70	30

STEEL SHIM STOCK

C1010 is a cold rolled, full hard, low carbon steel with a minimum hardness of RB-90.

Cu	Mn	P	S
.25	.90	.025	.025

PLASTIC SHIM

Color coded plastic shim with each thickness identified by its individual color. Sizes .0005 thru .020 are manufactured from Polyester and sizes .025 and up are Polypropylene. Tolerance-Sizes .0005 thru .020 +/-5%

Sizes .025 & up +/-10%

PRE-CUT SLOTTED SHIM

Manufactured from 302/304 full hard stainless steel.

Size A- 2x2 with 5/8" slot

Size B- 3x3 with 3/4" slot

Size C- 4x4 with 1-1/4" slot
Size D- 5x5 with 1-5/8" slot

Any Questions? Call (708) 482-4980

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