



ENGLISH

Datasheet

Red Steel Shim



Description:

Precision Brand Stainless Steel shim is a type 302, cold rolled, full hard material. It is widely used for shimming applications where corrosion resistance is required. Also, used extensively for spring clips, washers and retainers. Precision Brand Stainless Steel Shim has been recognized for shimming applications in nuclear and fossil fueled generating stations, oil and gas refineries and desalinization plants throughout the world.



Material and Mechanical Properties:

Material	Stainless Steel: Type 302
Carbon	0.15 Max
Manganese	2.00 Max
Phosphorous	0.045 Max
Sulphur	0.03 Max
Nickel	8.00 – 10.00
Chromium	17.00 – 19.00
Nitrogen	0.10 Max
Silicon	0.75 Max
Temper	Full Hard
Hardness	40 – 45 HRC
Tensile Strength	185,000 PSI Min.
Yield Strength	140,000 PSI Min.
Elongation	≤ 0.015" – 3% Min ≥ 0.015" – 4% Min
Meets Specifications	AISI-T302, SAE-30302 ASTM-A-666 (Rockwell hardness not required)

Accuracy Specifications:

Inch:

Thickness inch	Tolerance 6" Width	Tolerance 12" Width
0.001 – 0.010	± 10%	± 10%
0.011 – 0.019	± 0.001	± 0.0015
0.020 – 0.028	± 0.0015	± 0.0015
0.029 – 0.031	± 0.002	± 0.002

Metric:

Thickness mm	Tolerance mm
0.05	± 0.006
0.10	± 0.012
0.15	± 0.018
0.20	± 0.024
0.25 & 0.30	± 0.030
0.40	± 0.045
0.50	± 0.047
0.65	± 0.054



Metric Shim Rolls: 150 mm wide

ENGLISH

RS Code	Manuf. Code	Thickness mm	Box Qty	Included in Assortment Pack	Width mm	Length	Weight kilos	Weight lbs
519-024	77-422-971	0.05mm	1	Yes	150mm	1.25m	0.11	0.25
518-801	77-422-972	0.10mm	1	Yes	150mm	1.25m	0.20	0.43
518-970	77-422-973	0.15mm	1	Yes	150mm	1.25m	0.29	0.63
518-762	77-422-974	0.20mm	1	Yes	150mm	1.25m	0.36	0.80
518-857	77-422-975	0.25mm	1	Yes	150mm	1.25m	0.44	0.98
518-980	77-422-976	0.30mm	1	Yes	150mm	1.25m	0.56	1.24
519-062	77-422-977	0.40mm	1	Yes	150mm	1.25m	0.69	1.53
519-119	77-422-978	0.50mm	1	Yes	150mm	1.25m	1.00	2.20
518-952	77-422-979	0.65mm	1		150mm	1.25m	1.24	2.74
518-942	77-422-980	0.80mm	1		150mm	1.25m	1.44	3.18

Metric Shim Assortment Pack: 150 mm wide x 300 mm long

RS Code	Manuf. Code	Description	Range	No. Of Sheets	Weight kilos
518-946	77-422-161	Stainless Steel Assortment Pack Metric	0.05mm – 0.50mm	8	0.161

Inch Shim Rolls: 6" wide

RS Code	Manuf. Code	Thickness inch	Box Qty	Included in Assortment Pack	Width in	Length in	Weight kilos	Weight lbs
519-074	77-422-125	0.001"	1	Yes	6"	50"	0.10	0.21
519-096	77-422-150	0.002"	1	Yes	6"	50"	0.11	0.25
519-090	77-422-175	0.003"	1	Yes	6"	50"	0.15	0.34
518-829	77-422-220	0.005"	1	Yes	6"	50"	0.25	0.56
518-873	77-422-285	0.008"	1	Yes	6"	50"	0.36	0.80
657-1924	77-422-320	0.010"	1	Yes	6"	50"	0.44	0.98
519-028	77-422-340	0.012"	1		6"	50"	0.56	1.24
519-141	77-422-365	0.015"	1	Yes	6"	50"	0.69	1.53
518-734	77-422-390	0.020"	1	Yes	6"	50"	1.00	2.20
518-738	77-422-410	0.025"	1		6"	50"	1.24	2.74
519-012	77-422-430	0.031"	1		6"	50"	1.44	3.18