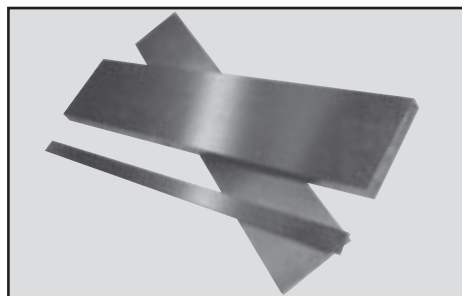


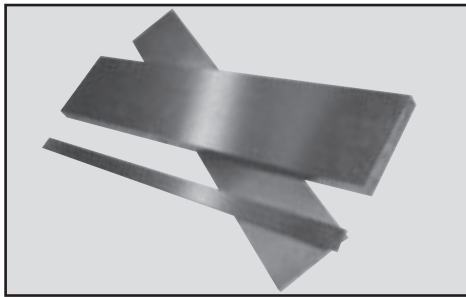
# Surface Ground Mild Steel Bar

- 2 Standard lengths
- Second dimension is material thickness before grinding
- Immediate delivery
- 150cm available upon request only



Part Number	Description (Width x Thickness x Length)	Part Number	Description (Width x Thickness x Length)
HSB10010-050	100 x 10 STOCK BAR 50CM	HSB13010-050	130 X 10 STOCK BAR 50CM
HSB10010-100	100 X 10 STOCK BAR 100CM	HSB13010-100	130 X 10 STOCK BAR 100CM
HSB10010-150	100 X 10 STOCK BAR 150CM	HSB13010-150	130 X 10 STOCK BAR 150CM
HSB10012-050	100 x 12 STOCK BAR 50CM	HSB13012-050	130 X 12 STOCK BAR 50CM
HSB10012-100	100 X 12 STOCK BAR 100CM	HSB13012-100	130 X 12 STOCK BAR 100CM
HSB10012-150	100 X 12 STOCK BAR 150CM	HSB13012-150	130 X 12 STOCK BAR 150CM
HSB10016-050	100 X 16 STOCK BAR 50CM	HSB13016-050	130 X 16 STOCK BAR 50CM
HSB10016-100	100 X 16 STOCK BAR 100CM	HSB13016-100	130 X 16 STOCK BAR 100CM
HSB10016-150	100 X 16 STOCK BAR 150CM	HSB13016-150	130 X 16 STOCK BAR 150CM
HSB10020-050	100 x 20 STOCK BAR 50CM	HSB13020-050	130 X 20 STOCK BAR 50CM
HSB10020-100	100 X 20 STOCK BAR 100CM	HSB13020-100	130 X 20 STOCK BAR 100CM
HSB10020-150	100 X 20 STOCK BAR 150CM	HSB13020-150	130 X 20 STOCK BAR 150CM
HSB10025-050	100 X 25 STOCK BAR 50CM	HSB13025-050	130 X 25 STOCK BAR 50CM
HSB10025-100	100 X 25 STOCK BAR 100CM	HSB13025-100	130 X 25 STOCK BAR 100CM
HSB10025-150	100 X 25 STOCK BAR 150CM	HSB13025-150	130 X 25 STOCK BAR 150CM
HSB10032-050	100 X 32 STOCK BAR 50CM	HSB13030-050	130 X 30 STOCK BAR 50CM
HSB10032-100	100 X 32 STOCK BAR 100CM	HSB13030-100	130 X 30 STOCK BAR 100CM
HSB10032-150	100 X 32 STOCK BAR 150CM	HSB13030-150	130 X 30 STOCK BAR 150CM
HSB10040-050	100 X 40 STOCK BAR 50CM	HSB13040-050	130 x 40 STOCK BAR 50CM
HSB10040-100	100 x 40 STOCK BAR 100CM	HSB13040-100	130 X 40 STOCK BAR 100CM
HSB10040-150	100 X 40 STOCK BAR 150CM	HSB13040-150	130 X 40 STOCK BAR 150CM
HSB10050-050	100 X 50 STOCK BAR 50CM	HSB13050-050	130 X 50 STOCK BAR 50CM
HSB10050-100	100 X 50 STOCK BAR 100CM	HSB13050-100	130 X 50 STOCK BAR 100CM
HSB10050-150	100 X 50 STOCK BAR 150CM	HSB13050-150	130 X 50 STOCK BAR 150CM
HSB1006-050	100 X 6 STOCK BAR 50CM	HSB15010-050	150 X 10 STOCK BAR 50CM
HSB1006-100	100 X 6 STOCK BAR 100CM	HSB15010-100	150 X 10 STOCK BAR 100CM
HSB1006-150	100 X 6 STOCK BAR 150CM	HSB15010-150	150 X 10 STOCK BAR 150CM
HSB13006-050	130 X 6 STOCK BAR 50CM	HSB15012-050	150 X 12 STOCK BAR 50CM
HSB13006-100	130 X 6 STOCK BAR 100CM	HSB15012-100	150 X 12 STOCK BAR 100CM
HSB13006-150	130 X 6 STOCK BAR 150CM	HSB15012-150	150 X 12 STOCK BAR 150CM

# Surface Ground Mild Steel Bar

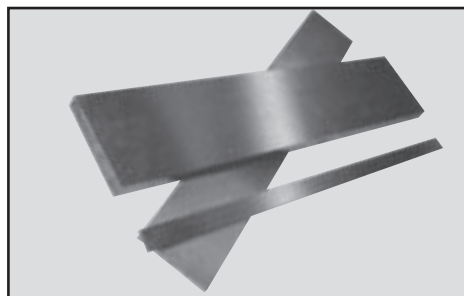


- 2 Standard lengths
- Second dimension is material thickness before grinding
- Immediate delivery
- 150cm available upon request only

Part Number	Description (Width x Thickness x Length)	Part Number	Description (Width x Thickness x Length)
HSB15016-050	150 X 16 STOCK BAR 50CM	HSB18030-050	180 X 30 STOCK BAR 50CM
HSB15016-100	150 X 16 STOCK BAR 100CM	HSB18030-100	180 X 30 STOCK BAR 100CM
HSB15016-150	150 X 16 STOCK BAR 150CM	HSB18030-150	180 X 30 STOCK BAR 150CM
HSB15020-050	150 X 20 STOCK BAR 50CM	HSB18040-050	180 X 40 STOCK BAR 50CM
HSB15020-100	150 X 20 STOCK BAR 100CM	HSB18040-100	180 X 40 STOCK BAR 100CM
HSB15020-150	150 X 20 STOCK BAR 150CM	HSB18040-150	180 X 40 STOCK BAR 150CM
HSB15025-050	150 X 25 STOCK BAR 50CM	HSB18050-050	180 X 50 STOCK BAR 50CM
HSB15025-100	150 X 25 STOCK BAR 100CM	HSB18050-100	180 X 50 STOCK BAR 100CM
HSB15025-150	150 X 25 STOCK BAR 150CM	HSB18050-150	180 X 50 STOCK BAR 150CM
HSB15032-050	150 X 32 STOCK BAR 50CM	HSB18060-050	180 X 60 STOCK BAR 50CM
HSB15032-100	150 X 35 STOCK BAR 100CM	HSB18060-100	180 X 60 STOCK BAR 100CM
HSB15032-150	150 X 32 STOCK BAR 150CM	HSB18060-150	180 X 60 STOCK BAR 150CM
HSB15040-050	150 X 40 STOCK BAR 50CM	HSB20012-050	200 X 12 STOCK BAR 50CM
HSB15040-100	150 X 40 STOCK BAR 100CM	HSB20012-100	200 X 12 STOCK BAR 100CM
HSB15040-150	150 X 40 STOCK BAR 150CM	HSB20012-150	200 X 12 STOCK BAR 150CM
HSB15050-050	150 X 50 STOCK BAR 50CM	HSB20016-050	200 X 16 STOCK BAR 50CM
HSB15050-100	150 X 50 STOCK BAR 100CM	HSB20016-100	200 X 16 STOCK BAR 100CM
HSB15050-150	150 X 50 STOCK BAR 150CM	HSB20016-150	200 X 16 STOCK BAR 150CM
HSB1506-050	150 X 6 STOCK BAR 50CM	HSB20020-050	200 X 20 STOCK BAR 50CM
HSB1506-100	150 X 6 STOCK BAR 100CM	HSB20020-100	200 X 20 STOCK BAR 100CM
HSB1506-150	150 X 6 STOCK BAR 150CM	HSB20020-150	200 X 20 STOCK BAR 150CM
HSB18012-050	180 X 12 STOCK BAR 50CM	HSB20025-050	200 X 25 STOCK BAR 50CM
HSB18012-100	180 X 12 STOCK BAR 100CM	HSB20025-100	200 X 25 STOCK BAR 100CM
HSB18012-150	180 X 12 STOCK BAR 150CM	HSB20025-150	200 X 25 STOCK BAR 150CM
HSB18020-050	180 X 20 STOCK BAR 50CM	HSB20030-050	200 X 30 STOCK BAR 50CM
HSB18020-100	180 X 20 STOCK BAR 100CM	HSB20030-100	200 X 30 STOCK BAR 100CM
HSB18020-150	180 X 20 STOCK BAR 150CM	HSB20030-150	200 X 30 STOCK BAR 150CM
HSB18025-050	180 X 25 STOCK BAR 50CM	HSB20040-050	200 X 40 STOCK BAR 50CM
HSB18025-100	180 X 25 STOCK BAR 100CM	HSB20040-100	200 X 40 STOCK BAR 100CM
HSB18025-150	180 X 25 STOCK BAR 150CM	HSB20040-150	200 X 40 STOCK BAR 150CM

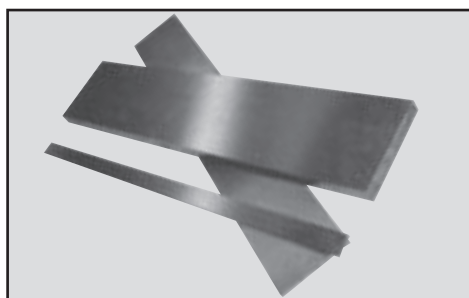
# Surface Ground Mild Steel Bar

- 2 Standard lengths
- Second dimension is material thickness before grinding
- Immediate delivery
- 150cm available upon request only



Part Number	Description (Width x Thickness x Length)	Part Number	Description (Width x Thickness x Length)
HSB20050-050	200 X 50 STOCK BAR 50CM	HSB30012-050	300 X 12 STOCK BAR 50CM
HSB20050-100	200 X 50 STOCK BAR 100CM	HSB30012-100	300 X 12 STOCK BAR 100CM
HSB20050-150	200 X 50 STOCK BAR 150CM	HSB30012-150	300 X 12 STOCK BAR 150CM
HSB25010-050	250 X 10 STOCK BAR 50CM	HSB30016-050	300 X 16 STOCK BAR 50CM
HSB25010-100	250 X 10 STOCK BAR 100CM	HSB30016-100	300 X 16 STOCK BAR 100CM
HSB25010-150	250 X 10 STOCK BAR 150CM	HSB30016-150	300 X 16 STOCK BAR 150CM
HSB25012-050	250 X 12 STOCK BAR 50CM	HSB30020-050	300 X 20 STOCK BAR 50CM
HSB25012-100	250 X 12 STOCK BAR 100CM	HSB30020-100	300 X 20 STOCK BAR 100CM
HSB25012-150	250 X 12 STOCK BAR 150CM	HSB30020-150	300 X 20 STOCK BAR 150CM
HSB25016-050	250 X 16 STOCK BAR 50CM	HSB30025-050	300 X 25 STOCK BAR 50CM
HSB25016-100	250 X 16 STOCK BAR 100CM	HSB30025-100	300 X 25 STOCK BAR 100CM
HSB25016-150	250 X 16 STOCK BAR 150CM	HSB30025-150	300 X 25 STOCK BAR 150CM
HSB25020-050	250 X 20 STOCK BAR 50CM	HSB30030-050	300 X 30 STOCK BAR 50CM
HSB25020-100	250 X 20 STOCK BAR 100CM	HSB30030-100	300 X 30 STOCK BAR 100CM
HSB25020-150	250 X 20 STOCK BAR 150CM	HSB30030-150	300 X 30 STOCK BAR 150CM
HSB25025-050	250 X 25 STOCK BAR 50CM	HSB30040-050	300 X 40 STOCK BAR 50CM
HSB25025-100	250 X 25 STOCK BAR 100CM	HSB30040-100	300 X 40 STOCK BAR 100CM
HSB25025-150	250 X 25 STOCK BAR 150CM	HSB30040-150	300 X 40 STOCK BAR 150CM
HSB25030-050	250 X 30 STOCK BAR 50CM	HSB30050-050	300 X 50 STOCK BAR 50CM
HSB25030-100	250 X 30 STOCK BAR 100CM	HSB30050-100	300 X 50 STOCK BAR 100CM
HSB25030-150	250 X 30 STOCK BAR 150CM	HSB30050-150	300 X 50 STOCK BAR 150CM
HSB25040-050	250 X 40 STOCK BAR 50CM	HSB30060-050	300 X 60 STOCK BAR 50CM
HSB25040-100	250 X 40 STOCK BAR 100CM	HSB30060-100	300 X 60 STOCK BAR 100CM
HSB25040-150	250 X 40 STOCK BAR 150CM	HSB30060-150	300 X 60 STOCK BAR 150CM
HSB25050-050	250 X 50 STOCK BAR 50CM	HSB5010-050	50 X 10 STOCK BAR 50CM
HSB25050-100	250 X 50 STOCK BAR 100CM	HSB5010-100	50 X 10 STOCK BAR 100CM
HSB25050-150	250 X 50 STOCK BAR 150CM	HSB5010-150	50 X 10 STOCK BAR 150CM
HSB25060-050	250 X 60 STOCK BAR 50CM	HSB5012-050	50 X 12 STOCK BAR 50CM
HSB25060-100	250 X 60 STOCK BAR 100CM	HSB5012-100	50 X 12 STOCK BAR 100CM
HSB25060-150	250 X 60 STOCK BAR 150CM	HSB5012-150	50 X 12 STOCK BAR 150CM

# Surface Ground Mild Steel Bar



- 2 Standard lengths
- Second dimension is material thickness before grinding
- Immediate delivery
- 150cm available upon request only

Part Number	Description (Width x Thickness x Length)	Part Number	Description (Width x Thickness x Length)
HSB5016-050	50 X 16 STOCK BAR 50CM	HSB7510-050	75 X 10 STOCK BAR 50CM
HSB5016-100	50 X 16 STOCK BAR 100CM	HSB7510-100	75 X 10 STOCK BAR 100CM
HSB5016-150	50 X 16 STOCK BAR 150CM	HSB7510-150	75 X 10 STOCK BAR 150CM
HSB5020-050	50 X 20 STOCK BAR 50CM	HSB7512-050	75 X 12 STOCK BAR 50CM
HSB5020-100	50 X 20 STOCK BAR 100CM	HSB7512-100	75 X 12 STOCK BAR 100CM
HSB5020-150	50 X 20 STOCK BAR 150CM	HSB7512-150	75 X 12 STOCK BAR 150CM
HSB5025-050	50 X 25 STOCK BAR 50CM	HSB7516-050	75 X 16 STOCK BAR 50CM
HSB5025-100	50 X 25 STOCK BAR 100CM	HSB7516-100	75 X 16 STOCK BAR 100CM
HSB5025-150	50 X 25 STOCK BAR 150CM	HSB7516-150	75 X 16 STOCK BAR 150CM
HSB5030-050	50 X 30 STOCK BAR 50CM	HSB7520-050	75 X 20 STOCK BAR 50CM
HSB5030-100	50 X 30 STOCK BAR 100CM	HSB7520-100	75 X 20 STOCK BAR 100CM
HSB5030-150	50 X 30 STOCK BAR 150CM	HSB7520-150	75 X 20 STOCK BAR 150CM
HSB5040-050	50 X 40 STOCK BAR 50CM	HSB7525-050	75 X 25 STOCK BAR 50CM
HSB5040-100	50 X 40 STOCK BAR 100CM	HSB7525-100	75 X 25 STOCK BAR 100CM
HSB5040-150	50 X 40 STOCK BAR 150CM	HSB7525-150	75 X 25 STOCK BAR 150CM
HSB5050-050	50 X 50 STOCK BAR 50CM	HSB7530-050	75 X 30 STOCK BAR 50CM
HSB5050-100	50 X 50 STOCK BAR 100CM	HSB7530-100	75 X 30 STOCK BAR 100CM
HSB5050-150	50 X 50 STOCK BAR 150CM	HSB7530-150	75 X 30 STOCK BAR 150CM
HSB506-050	50 X 6 STOCK BAR 50CM	HSB7540-050	75 X 40 STOCK BAR 50CM
HSB506-100	50 X 6 STOCK BAR 100CM	HSB7540-100	75 X 40 STOCK BAR 100CM
HSB506-150	50 X 6 STOCK BAR 150CM	HSB7540-150	75 X 40 STOCK BAR 150CM
HSB6512-050	65 X 12 STOCK BAR 50CM	HSB7550-050	75 X 50 STOCK BAR 50CM
HSB6512-100	65 X 12 STOCK BAR 100CM	HSB7550-100	75 X 50 STOCK BAR 100CM
HSB6512-150	65 X 12 STOCK BAR 150CM	HSB7550-150	75 X 50 STOCK BAR 150CM
HSB6520-050	65 X 20 STOCK BAR 50CM	HSB9012-050	90 X 12 STOCK BAR 50CM
HSB6520-100	65 X 20 STOCK BAR 100CM	HSB9012-100	90 X 12 STOCK BAR 100CM
HSB6520-150	65 X 20 STOCK BAR 150CM	HSB9012-150	90 X 12 STOCK BAR 150CM
HSB7506-050	75 X 6 STOCK BAR 50CM		
HSB7506-100	75 X 6 STOCK BAR 100CM		
HSB7506-150	75 X 6 STOCK BAR 150CM		

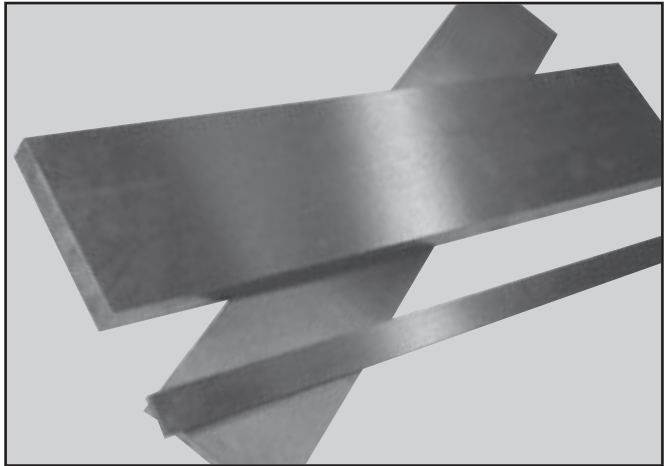
# Precision Ground Flat Stock (Gauge Plate)

**Hales stock a comprehensive range of both metric and imperial Ground Flat Stock in 500mm lengths.**

**1 metre lengths also available.**

O1 is a medium alloyed oil hardening steel with excellent cutting force and toughness, the excellent dimensional stability reduces distortion and the possibility of cracking during heat treatment.

Supplied in the annealed condition, the precision tolerances minimise additional costly tool room machining.



Ground Flat Stock provides toolmakers with a decarburization free surface, plus high wear resistance after heat treatment, making it ideal for a multitude of uses and applications: dies, press tools, punches, gauges, cams, jigs, machining knives and marking devices.

Hardness as supplied: 229 Brinall max Tensile Strength: 45 Tons / sq. in.

## Gauge Plate (Metric)

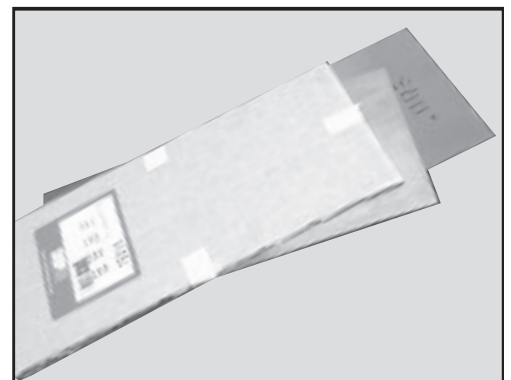
Width	1	1.5	2	3	4	5	6	8	10	12	15	20	25	30	40	50	Thickness
Square				◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
10	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆							
15	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆						
20	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆					
25	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆				
30	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆			
40	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		
50	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
60	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
70	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
75	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
80	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
100	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
125	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
150	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
200	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
250	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
300	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	

# Gauge Plate (Imperial)

Width	1/32	1/16	3/32	1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2	Thickness
3/8	◆	◆	◆	◆	◆	◆	◆	◆									
1/2	◆	◆	◆	◆	◆	◆	◆	◆	◆								
5/8	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆							
3/4	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆						
1	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆					
1 1/4	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆				
1 1/2	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆			
2	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		
2 1/2	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
3	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
4	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
5	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
6	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
8	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
10	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
12	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	

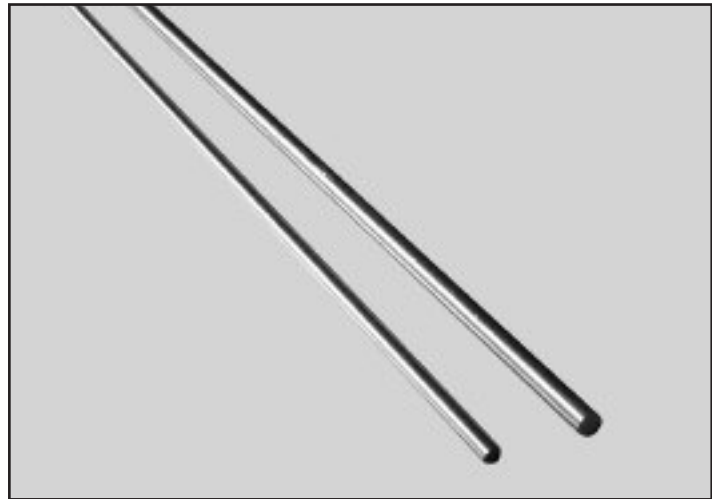
## Steel Shim in a Can

Part Number	Description
SHS001	.001 SHIM STEEL
SHS002	.002 SHIM STEEL
SHS003	.003 SHIM STEEL
SHS004	.004 SHIM STEEL
SHS005	.005 SHIM STEEL
SHS006	.006 SHIM STEEL
SHS008	.008 SHIM STEEL
SHS010	.010 SHIM STEEL
SHS012	.012 SHIM STEEL
SHS015	.015 SHIM STEEL
SHS020	.020 SHIM STEEL
"full can 100"" lengths or cut to size"	
SHSA	ASSORTED SHIM 12 PACK
	"6"" X 12"" X 12Pcs"
	".001,.0015,.002,.003,"
	".004,.005,.006,.007,.008,.010,.012.015"



# Silver Steel

- 1 metre lengths
- Metric 2 - 50mm
- Imperial 1/16" - 2"



# Urethane

DIAMETER
U060=6mm
U010=10mm
U012=12mm
U015=15mm
U020=20mm
U022=22mm
U025=25mm
U032=32mm
U035=35mm

DIAMETER
U040=40mm
U045=45mm
U050=50mm
U060=60mm
U070=70mm
U075=75mm
U082=82mm
U100=100mm
U150=150mm

SHEETS
US010=10x305x305
US012=12x305x305
US015=15x305x305
US020=20x305x305
US025=25x305x305
US030=30x305x305
US035=35x305x305
US040=40x305x305
US045=45x305x305
US050=50x305x305

Stocked in P9A-90 Shore A-Red.

Harder. Softer and other sizes manufactured to order.

Black rubber sheets also ex-stock.