



Main characteristics and properties of the materials :

- High as quenched hardness
- Low dimensional movement or distortion after hardening
- Hardens from a relatively low hardening temperature
- Good machinability

Typical Applications:

- Blanking Dies
- Gauges
- Form Tools
- Taps
- Punches
- Dies
- Gauge Blocks
- Jigs & Fixtures

The nominal chemical composition is as follows:

- Carbon 0.95%
- Manganese 1.2%
- Chromium 0.50%
- Tungsten 0.50%
- Silicon 0.25%
- Vanadium 0.20%
- S & P up to 0.035% maximum

01 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.

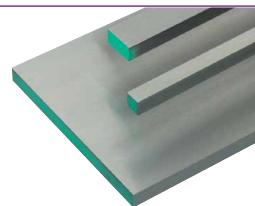
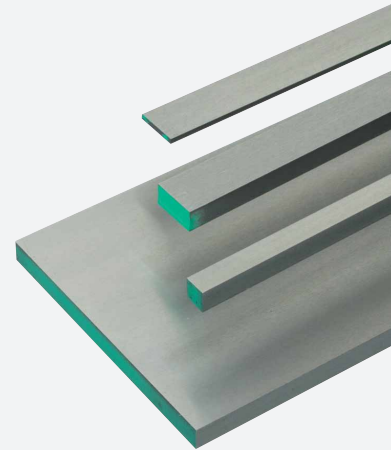
Ground Flat Stock provides toolmakers with a decarburisation free surface, plus

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.

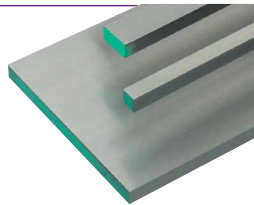
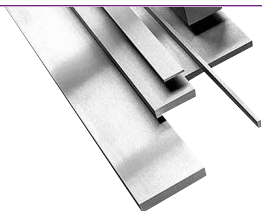
Tolerances: Thickness -0/+0.05, Width -0/+0.2

Hales stock a comprehensive range of metric Ground Flat Stock in 500mm lengths. 1 metre lengths also available.



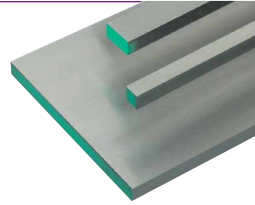
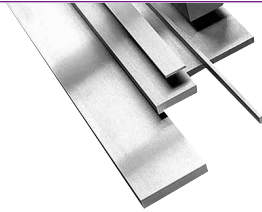
Part Number	Description
GM01010	1 X 10 X 500 Gauge Plate
GM01010M	1 X 10 X 1000 Gauge Plate
GM01015	1 X 15 x 500 Gauge Plate
GM01020	1 X 20 X 500 Gauge Plate
GM01020M	1 X 20 X 1000 Gauge Plate
GM01025	1 X 25 X 500 Gauge Plate
GM01030	1 X 30 X 500 Gauge Plate
GM01030M	1 X 30 X 1000 Gauge Plate
GM01040	1 X 40 X 500 Gauge Plate
GM01040M	1 X 40 X 1000 Gauge Plate
GM01050	1 X 50 X 500 Gauge Plate
GM01050M	1 X 50 X 1000 Gauge Plate

Part Number	Description
GM01060	1 X 60 X 500 Gauge Plate
GM01060M	1 X 60 X 1000 Gauge Plate
GM01075	1 X 75 X 500 Gauge Plate
GM01075M	1 X 75 X 1000 Gauge Plate
GM01080	1 X 80 X 500 Gauge Plate
GM01100	1 X 100 X 500 Gauge Plate
GM01100M	1 X 100 X 1000 Gauge Plate
GM01125	1 X 125 X 500 Gauge Plate
GM01125M	1 X 125 X 1000 Gauge Plate
GM01150	1 X 150 X 500 Gauge Plate
GM01150M	1 X 150 X 1000 Gauge Plate
GM01200	1 X 200 X 500 Gauge Plate



Part Number	Description
GM01250	1 X 250 X 500 Gauge Plate
GM01300	1 X 300 X 500 Gauge Plate
GM015010	1.5 X 10 X 500 Gauge Plate
GM015015	1.5 X 15 X 500 Gauge Plate
GM015015M	1.5 X 15 X 1000 Gauge Plate
GM015020	1.5 X 20 X 500 Gauge Plate
GM015025	1.5 X 25 X 500 Gauge Plate
GM015025M	1.5 X 25 X 1000 Gauge Plate
GM015030	1.5 X 30 X 500 Gauge Plate
GM015030M	1.5 X 30 X 1000 Gauge Plate
GM015040	1.5 X 40 X 500 Gauge Plate
GM015050	1.5 X 50 X 500 Gauge Plate
GM015050M	1.5 X 50 X 1000 Gauge Plate
GM015060	1.5 X 60 X 500 Gauge Plate
GM015060M	1.5 X 60 X 1000 Gauge Plate
GM015075	1.5 X 75 X 500 Gauge Plate
GM015075M	1.5 X 75 X 1000 Gauge Plate
GM015080	1.5 X 80 X 500 Gauge Plate
GM015080M	1.5 X 80 X 1000 Gauge Plate
GM015100	1.5 X 100 X 500 Gauge Plate
GM015100M	1.5 X 100 X 1000 Gauge Plate
GM015125	1.5 X 125 X 500 Gauge Plate
GM015125M	1.5 X 125 X 1000 Gauge Plate
GM015150	1.5 X 150 X 500 Gauge Plate
GM015150M	1.5 X 150 X 1000 Gauge Plate
GM015200	1.5 X 200 X 500 Gauge Plate
GM015200M	1.5 X 200 X 1000 Gauge Plate
GM015250	1.5 X 250 X 500 Gauge Plate
GM015300	1.5 X 300 X 500 Gauge Plate
GM02010	2 X 10 X 500 Gauge Plate
GM02010M	2 X 10 X 1000 Gauge Plate
GM02015	2 X 15 X 500 Gauge Plate
GM02015M	2 X 15 X 1000 Gauge Plate
GM02020	2 X 20 X 500 Gauge Plate
GM02020M	2 X 20 X 1000 Gauge Plate
GM02025	2 X 25 X 500 Gauge Plate
GM02025M	2 X 25 X 1000 Gauge Plate
GM02030	2 X 30 X 500 Gauge Plate
GM02030M	2 X 30 X 1000 Gauge Plate
GM02040	2 X 40 X 500 Gauge Plate
GM02040M	2 X 40 X 1000 Gauge Plate
GM02050	2 X 50 X 500 Gauge Plate
GM02050M	2 X 50 X 1000 Gauge Plate
GM02060	2 X 60 X 500 Gauge Plate
GM02060M	2 X 60 X 1000 Gauge Plate
GM02075	2 X 75 X 500 Gauge Plate
GM02075M	2 X 75 X 1000 Gauge Plate
GM02080	2 X 80 X 500 Gauge Plate
GM02080M	2 X 80 X 1000 Gauge Plate

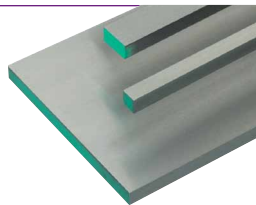
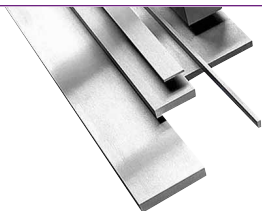
Part Number	Description
GM02100	2 X 100 X 500 Gauge Plate
GM02100M	2 X 100 X 1000 Gauge Plate
GM02125	2 X 125 X 500 Gauge Plate
GM02125M	2 X 125 X 1000 Gauge Plate
GM02150	2 X 150 X 500 Gauge Plate
GM02150M	2 X 150 X 1000 Gauge Plate
GM02200	2 X 200 X 500 Gauge Plate
GM02200M	2 X 200 X 1000 Gauge Plate
GM02250	2 X 250 X 500 Gauge Plate
GM02250M	2 X 250 X 1000 Gauge Plate
GM02300	2 X 300 X 500 Gauge Plate
GM02300M	2 X 300 X 1000 Gauge Plate
GM0300	3mmsq X 500 Gauge Plate
GM03010	3 X 10 X 500 Gauge Plate
GM03010M	3 X 10 X 1000 Gauge Plate
GM03012	3 X 12 X 500 Gauge Plate
GM03012M	3 X 12 X 1000 Gauge Plate
GM03015	3 X 15 X 500 Gauge Plate
GM03015M	3 X 15 X 1000 Gauge Plate
GM03020	3 X 20 X 500 Gauge Plate
GM03020M	3 X 20 X 1000 Gauge Plate
GM03025	3 X 25 X 500 Gauge Plate
GM03025M	3 X 25 X 1000 Gauge Plate
GM03030	3 X 30 X 500 Gauge Plate
GM03030M	3 X 30 X 1000 Gauge Plate
GM03040	3 X 40 X 500 Gauge Plate
GM03040M	3 X 40 X 1000 Gauge Plate
GM03050	3 X 50 X 500 Gauge Plate
GM03050M	3 X 50 X 1000 Gauge Plate
GM03060	3 X 60 X 500 Gauge Plate
GM03060M	3 X 60 X 1000 Gauge Plate
GM03070	3 X 70 X 500 Gauge Plate
GM03075	3 X 75 X 500 Gauge Plate
GM03075M	3 X 75 X 1000 Gauge Plate
GM03080M	3 X 80 X 1000 Gauge Plate
GM03100	3 X 100 X 500 Gauge Plate
GM03100M	3 X 100 X 1000 Gauge Plate
GM03125	3 X 125 X 500 Gauge Plate
GM03125M	3 X 125 X 1000 Gauge Plate
GM03150	3 X 150 X 500 Gauge Plate
GM03150M	3 X 150 X 1000 Gauge Plate
GM03200	3 X 200 X 500 Gauge Plate
GM03200M	3 X 200 X 1000 Gauge Plate
GM03250	3 X 250 X 500 Gauge Plate



Part Number	Description
GM03300	3 X 300 X 500 Gauge Plate
GM03300M	3 X 300 X 1000 Gauge Plate
GM0400	4mm sq X 500 Gauge Plate
GM04010	4 X 10 X 500 Gauge Plate
GM04010M	4 X 10 X 1000 Gauge Plate
GM04015	4 X 15 X 500 Gauge Plate
GM04015M	4 X 15 X 1000 Gauge Plate
GM04020	4 X 20 X 500 Gauge Plate
GM04020M	4 X 20 X 1000 Gauge Plate
GM04025	4 X 25 X 500 Gauge Plate
GM04025M	4 X 25 X 1000 Gauge Plate
GM04030	4 X 30 X 500 Gauge Plate
GM04030M	4 X 30 X 1000 Gauge Plate
GM04040	4 X 40 X 500 Gauge Plate
GM04040M	4 X 40 X 1000 Gauge Plate
GM04050	4 X 50 X 500 Gauge Plate
GM04050M	4 X 50 X 1000 Gauge Plate
GM04060	4 X 60 X 500 Gauge Plate
GM04060M	4 X 60 X 1000 Gauge Plate
GM04075	4 X 75 X 500 Gauge Plate
GM04075M	4 X 75 X 1000 Gauge Plate
GM04080	4 X 80 X 500 Gauge Plate
GM04100	4 X 100 X 500 Gauge Plate
GM04100M	4 X 100 X 1000 Gauge Plate
GM04125	4 X 125 X 500 Gauge Plate
GM04125M	4 X 125 X 1000 Gauge Plate
GM04150	4 X 150 X 500 Gauge Plate
GM04150M	4 X 150 X 1000 Gauge Plate
GM04200	4 X 200 X 500 Gauge Plate
GM04200M	4 X 200 X 1000 Gauge Plate
GM04250	4 X 250 X 500 Gauge Plate
GM04250M	4 X 250 X 1000 Gauge Plate
GM04300	4 X 300 X 500 Gauge Plate
GM04300M	4 X 300 X 1000 Gauge Plate
GM0500	5mm sq X 500 Gauge Plate
GM05010	5 X 10 X 500 Gauge Plate
GM05010M	5 X 10 X 1000 Gauge Plate
GM05015	5 X 15 X 500 Gauge Plate
GM05020	5 X 20 X 500 Gauge Plate
GM05020M	5 X 20 X 1000 Gauge Plate
GM05025	5 X 25 X 500 Gauge Plate
GM05025M	5 X 25 X 1000 Gauge Plate
GM05030	5 X 30 X 500 Gauge Plate
GM05030M	5 X 30 X 1000 Gauge Plate
GM05040	5 X 40 X 500 Gauge Plate
GM05040M	5 X 40 X 1000 Gauge Plate
GM05050	5 X 50 X 500 Gauge Plate
GM05050M	5 X 50 X 1000 Gauge Plate
GM05060	5 X 60 X 500 Gauge Plate
GM05060M	5 X 60 X 1000 Gauge Plate
GM05075	5 X 75 X 500 Gauge Plate

Part Number	Description
GM05075M	5 X 75 X 1000 Gauge Plate
GM05080	5 X 80 X 500 Gauge Plate
GM05080M	5 X 80 X 1000 Gauge Plate
GM05100	5 X 100 X 500 Gauge Plate
GM05100M	5 X 100 X 1000 Gauge Plate
GM05125	5 X 125 X 500 Gauge Plate
GM05125M	5 X 125 X 1000 Gauge Plate
GM05150	5 X 150 X 500 Gauge Plate
GM05150M	5 X 150 X 1000 Gauge Plate
GM05200	5 X 200 X 500 Gauge Plate
GM05200M	5 X 200 X 1000 Gauge Plate
GM05250	5 X 250 X 500 Gauge Plate
GM05250M	5 X 250 X 1000 Gauge Plate
GM05300	5 X 300 X 500 Gauge Plate
GM0600	6mm sq X 500 Gauge Plate
GM06010	6 X 10 X 500 Gauge Plate
GM06010M	6 X 10 X 1000 Gauge Plate
GM06015	6 X 15 X 500 Gauge Plate
GM06015M	6 X 15 X 1000 Gauge Plate
GM06020	6 X 20 X 500 Gauge Plate
GM06020M	6 X 20 X 1000 Gauge Plate
GM06025	6 X 25 X 500 Gauge Plate
GM06025M	6 X 25 X 1000 Gauge Plate
GM06030	6 X 30 X 500 Gauge Plate
GM06030M	6 X 30 X 1000 Gauge Plate
GM06040	6 X 40 X 500 Gauge Plate
GM06040M	6 X 40 X 1000 Gauge Plate
GM06050	6 X 50 X 500 Gauge Plate
GM06050M	6 X 50 X 1000 Gauge Plate
GM06060	6 X 60 X 500 Gauge Plate
GM06060M	6 X 60 X 1000 Gauge Plate
GM06075	6 X 75 X 500 Gauge Plate
GM06075M	6 X 75 X 1000 Gauge Plate
GM06080	6 X 80 X 500 Gauge Plate
GM06080M	6 X 80 X 1000 Gauge Plate
GM06100	6 X 100 X 500 Gauge Plate
GM06100M	6 X 100 X 1000 Gauge Plate
GM06125	6 X 125 X 500 Gauge Plate
GM06125M	6 X 125 X 1000 Gauge Plate
GM06150	6 X 150 X 500 Gauge Plate
GM06150M	6 X 150 X 1000 Gauge Plate
GM06200	6 X 200 X 500 Gauge Plate
GM06200M	6 X 200 X 1000 Gauge Plate

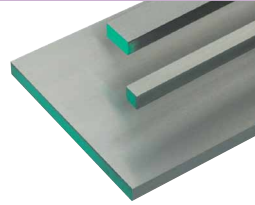
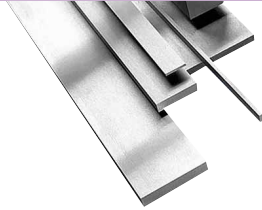
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Part Number	Description
GM06250	6 X 250 X 500 Gauge Plate
GM06300	6 X 300 X 500 Gauge Plate
GM0800	8mm sq X 500 Gauge Plate
GM08010	8 X 10 X 500 Gauge Plate
GM08010M	8 X 10 X 1000 Gauge Plate
GM08015	8 X 15 X 500 Gauge Plate
GM08015M	8 X 15 X 1000 Gauge Plate
GM08020	8 X 20 X 500 Gauge Plate
GM08020M	8 X 20 X 1000 Gauge Plate
GM08025	8 X 25 X 500 Gauge Plate
GM08025M	8 X 25 X 1000 Gauge Plate
GM08030	8 X 30 X 500 Gauge Plate
GM08030M	8 X 30 X 1000 Gauge Plate
GM08040	8 X 40 X 500 Gauge Plate
GM08040M	8 X 40 X 1000 Gauge Plate
GM08050	8 X 50 X 500 Gauge Plate
GM08050M	8 X 50 X 1000 Gauge Plate
GM08060	8 X 60 X 500 Gauge Plate
GM08060M	8 X 60 X 1000 Gauge Plate
GM08075	8 X 75 X 500 Gauge Plate
GM08075M	8 X 75 X 1000 Gauge Plate
GM08080	8 X 80 X 500 Gauge Plate
GM08080M	8 X 80 X 1000 Gauge Plate
GM08100	8 X 100 X 500 Gauge Plate
GM08100M	8 X 100 X 1000 Gauge Plate
GM08125	8 X 125 X 500 Gauge Plate
GM08125M	8 X 125 X 1000 Gauge Plate
GM08150	8 X 150 X 500 Gauge Plate
GM08150M	8 X 150 X 1000 Gauge Plate
GM08200	8 X 200 X 500 Gauge Plate
GM08200M	8 X 200 X 1000 Gauge Plate
GM08250	8 X 250 X 500 Gauge Plate
GM08250M	8 X 250 X 1000 Gauge Plate
GM08300	8 X 300 X 500 Gauge Plate
GM1000	10mm sq X 500 Gauge Plate
GM10015	10 X 15 X 500 Gauge Plate
GM10015M	10 X 15 X 1000 Gauge Plate
GM10020	10 X 20 X 500 Gauge Plate
GM10020M	10 X 20 X 1000 Gauge Plate
GM10025	10 X 25 X 500 Gauge Plate
GM10025M	10 X 25 X 1000 Gauge Plate
GM10030	10 X 30 X 500 Gauge Plate
GM10030M	10 X 30 X 1000 Gauge Plate
GM10040	10 X 40 X 500 Gauge Plate
GM10040M	10 X 40 X 1000 Gauge Plate
GM10050	10 X 50 X 500 Gauge Plate
GM10050M	10 X 50 X 1000 Gauge Plate
GM10060	10 X 60 X 500 Gauge Plate
GM10060M	10 X 60 X 1000 Gauge Plate

Part Number	Description
GM10075	10 X 75 X 500 Gauge Plate
GM10075M	10 X 75 X 1000 Gauge Plate
GM10100	10 X 100 X 500 Gauge Plate
GM10100M	10 X 100 X 1000 Gauge Plate
GM10125	10 X 125 X 500 Gauge Plate
GM10125M	10 X 125 X 1000 Gauge Plate
GM10150	10 X 150 X 500 Gauge Plate
GM10150M	10 X 150 X 1000 Gauge Plate
GM10200	10 X 200 X 500 Gauge Plate
GM10200M	10 X 200 X 1000 Gauge Plate
GM10250	10 X 250 X 500 Gauge Plate
GM10300	10 X 300 X 500 Gauge Plate
GM1200	12mm sq X 500 Gauge Plate
GM12015	12 X 15 X 500 Gauge Plate
GM12015M	12 X 15 X 1000 Gauge Plate
GM12020	12 X 20 X 500 Gauge Plate
GM12020M	12 X 20 X 1000 Gauge Plate
GM12025	12 X 25 X 500 Gauge Plate
GM12025M	12 X 25 X 1000 Gauge Plate
GM12030	12 X 30 X 500 Gauge Plate
GM12030M	12 X 30 X 1000 Gauge Plate
GM12040	12 X 40 X 500 Gauge Plate
GM12040M	12 X 40 X 1000 Gauge Plate
GM12050	12 X 50 X 500 Gauge Plate
GM12050M	12 X 50 X 1000 Gauge Plate
GM12060	12 X 60 X 500 Gauge Plate
GM12060M	12 X 60 X 1000 Gauge Plate
GM12075	12 X 75 X 500 Gauge Plate
GM12080	12 X 80 X 500 Gauge Plate
GM12080M	12 X 80 X 1000 Gauge Plate
GM12100	12 X 100 X 500 Gauge Plate
GM12100M	12 X 100 X 1000 Gauge Plate
GM12125	12 X 125 X 500 Gauge Plate
GM12125M	12 X 125 X 1000 Gauge Plate
GM12150	12 X 150 X 500 Gauge Plate
GM12150M	12 X 150 X 1000 Gauge Plate
GM12200	12 X 200 X 500 Gauge Plate
GM12200M	12 X 200 X 1000 Gauge Plate
GM12250	12 X 250 X 500 Gauge Plate

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Part Number	Description
GM12250M	12 X 250 X 1000 Gauge Plate
GM12300	12 X 300 X 500 Gauge Plate
GM1500	15mm sq X 500 Gauge Plate
GM15020	15 X 20 X 500 Gauge Plate
GM15020M	15 X 20 X 1000 Gauge Plate
GM15025	15 X 25 X 500 Gauge Plate
GM15030	15 X 30 X 500 Gauge Plate
GM15030M	15 X 30 X 1000 Gauge Plate
GM15040	15 X 40 X 500 Gauge Plate
GM15040M	15 X 40 X 1000 Gauge Plate
GM15050	15 X 50 X 500 Gauge Plate
GM15050M	15 X 50 X 1000 Gauge Plate
GM15060	15 X 60 X 500 Gauge Plate
GM15060M	15 X 60 X 1000 Gauge Plate
GM15075	15 X 75 X 500 Gauge Plate
GM15080	15 X 80 X 500 Gauge Plate
GM15100	15 X 100 X 500 Gauge Plate
GM15100M	15 X 100 X 1000 Gauge Plate
GM15125	15 X 125 X 500 Gauge Plate
GM15150	15 X 150 X 500 Gauge Plate
GM15150M	15 X 150 X 1000 Gauge Plate
GM15200	15 X 200 X 500 Gauge Plate
GM15250	15 X 250 X 500 Gauge Plate
GM15250M	15 X 250 X 1000 Gauge Plate
GM15300	15 X 300 X 500 Gauge Plate
GM2000	20mm sq X 500 Gauge Plate
GM2000M	20mmsq X 1000 Gauge Plate
GM20025	20 X 25 X 500 Gauge Plate
GM20025M	20 X 25 X 1000 Gauge Plate
GM20030	20 X 30 X 500 Gauge Plate
GM20030M	20 X 30 X 1000 Gauge Plate
GM20040	20 X 40 X 500 Gauge Plate
GM20040M	20 X 40 X 1000 Gauge Plate
GM20050	20 X 50 X 500 Gauge Plate
GM20050M	20 X 50 X 1000 Gauge Plate
GM20060	20 X 60 X 500 Gauge Plate
GM20060M	20 X 60 X 1000 Gauge Plate
GM20075	20 X 75 X 500 Gauge Plate
GM20075M	20 X 75 X 1000 Gauge Plate
GM20080	20 X 80 X 500 Gauge Plate
GM20080M	20 X 80 X 1000 Gauge Plate
GM20100	20 X 100 X 500 Gauge Plate
GM20125	20 X 125 X 500 Gauge Plate
GM20150	20 X 150 X 500 Gauge Plate
GM20200	20 X 200 X 500 Gauge Plate
GM20250	20 X 250 X 500 Gauge Plate

Part Number	Description
GM20250M	20 X 250 X 1000 Gauge Plate
GM20300	20 X 300 X 500 Gauge Plate
GM2500	25mm Sq X 500 Gauge Plate
GM25030	25 X 30 X 500 Gauge Plate
GM25030M	25 X 30 X 1000 Gauge Plate
GM25040	25 X 40 X 500 Gauge Plate
GM25040M	25 X 40 X 1000 Gauge Plate
GM25050	25 X 50 X 500 Gauge Plate
GM25050M	25 X 50 X 1000 Gauge Plate
GM25060	25 X 60 X 500 Gauge Plate
GM25075	25 X 75 X 500 Gauge Plate
GM25075M	25 X 75 X 1000 Gauge Plate
GM25080	25 X 80 X 500 Gauge Plate
GM25080M	25 X 80 X 1000 Gauge Plate
GM25100	25 X 100 X 500 Gauge Plate
GM25100M	25 X 100 X 1000 Gauge Plate
GM25125	25 X 125 X 500 Gauge Plate
GM25125M	25 X 125 X 1000 Gauge Plate
GM25150	25 X 150 X 500 Gauge Plate
GM25200	25 X 200 X 500 Gauge Plate
GM25250	25 X 250 X 500 Gauge Plate
GM25250M	25 X 250 X 1000 Gauge Plate
GM25300	25 X 300 X 500 Gauge Plate
GM25300M	25 X 300 X 1000 Gauge Plate
GM3000	30mm sq X 500 Gauge Plate
GM30040	30 X 40 X 500 Gauge Plate
GM30040M	30 X 40 X 1000 Gauge Plate
GM30050	30 X 50 X 500 Gauge Plate
GM30050M	30 X 50 X 1000 Gauge Plate
GM30060	30 X 60 X 500 Gauge Plate
GM30060M	30 X 60 X 1000 Gauge Plate
GM30075	30 X 75 X 500 Gauge Plate
GM30075M	30 X 75 X 1000 Gauge Plate
GM30080	30 X 80 X 500 Gauge Plate
GM30080M	30 X 80 X 1000 Gauge Plate
GM30100	30 X 100 X 500 Gauge Plate
GM30125	30 X 125 X 500 Gauge Plate
GM30125M	30 X 125 X 1000 Gauge Plate
GM30150	30 X 150 X 500 Gauge Plate
GM30150M	30 X 150 X 1000 Gauge Plate
GM30200	30 X 200 X 500 Gauge Plate
GM30200M	30 X 200 X 1000 Gauge Plate
GM30250	30 X 250 X 500 Gauge Plate
GM30250M	30 X 250 X 1000 Gauge Plate
GM30300	30 X 300 X 500 Gauge Plate
GM30300M	30 X 300 X 1000 Gauge Plate
GM4000	40mm sq X 500 Gauge Plate
GM5000	50mm sq X 500 Gauge Plate