



S.M. STEEL

Steeling The Future



We are a third generation business house (established in 1949 by Mr. M.R. Malhotra).

S.M. Steel, was established in 1990 as a steel trading outlet.

One of the leaders in the Industry, the company is an influential business house in India and has a long history of providing clients with first rate, quality products with punctual services.

Head quartered in Faridabad, India, the Company currently operates two major outlets and also imports niche grades from European steel producers.

Employing an experienced team of 10 highly successful professionals, the Company has a reasonable market share.

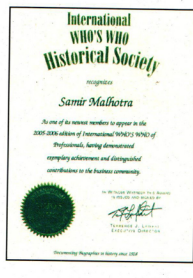
Mr. S. Malhotra serves in the position of Partner with S.M. Steel leveraging extensive business and professional qualifications.

With fresh ideas, a focus on accountability and new business insights that extend beyond traditional thinking.

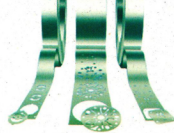


Key Factors :

Mr. S. Malhotra furnishes the strategic vision and motivation behind the Company's success and promotes a culture which upholds the highest standards of integrity and probity.



- Fulfilling Customer's Quality requirement
- Executing Timely Deliveries
- Excellent surface finish
- Maintaining Close tolerance on thickness
- Traceability : Supplies are certified with test results



Applications of Alloy Steels are vast such as in :

Automobile Industry: Clutch plates, Horn diaphragms etc.



Tool Cutting Tools : Band Saw blades, Hand Saws, Cross Cut Saws, Pit Saws, Web Saws, Circular Saws, Metal Cutting Saws etc..

Miscellaneous



PRODUCT RANGE

We supply all grades of High Carbon Steel : EN42J(C42), C-98, 4C-21 20C grade and Medium Carbon EN-8, EN 9(C55) and special grades like 50 CRV4, 17C26.

C55 grade Cold Rolled & Annealed Steel Strips

Composition: C: 0.5-0.6%, Mn: 0.5-0.9%, Si: 0.35% Max, S&P: 0.04% Max.

Normally this grade is stocked in Annealed conditioned with 180 HV Max Hardness. Strips can also be supplied in different temper in range of 200-350 HV on request. These strips are available in stock from thickness ranging from 4.0 to 0.25 mm in width of 250-350 mm, this can be slitted, decoiled and levelled as per the customer's request.

This grade is similar to following grades.

*AISI 1055, *CK 60 (DIN), *EN-9/C5 50 (BS), *MC-12, *JIS-S 50C & S 55C/Sup 9, *55C6 of IS 2507 of 1975.

These strips are supplied in bright finish & sheared edges suitable for bending & forming and then heat treated for required hardness.



These strips are widely used for making Springs, Washers, Spacers, Clips, Pin, Inserts etc.

C80 grade Cold Rolled & Annealed Steel Strips

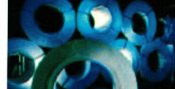
Composition: C: 0.75-0.9%, Mn: 0.5-0.9%, Si: 0.10-0.35%, S&P: 0.04% Max.

This grade of Strip is stocked in Annealed conditioned with 200 HV Max Hardness. However, can also be supplied in different temper in range of 200-400 HV on request. These strips are available in stock in thickness range from 4.0 to 0.25 mm in width of 250-350 mm, this can be slitted, decoiled as per the customer's request.

This grade compare well with following grades.

*AISI 1080/1085, *CK 75/80 (DIN), *HC-14/EN-42J/DIN 17200, *80 C6 of IS 2507 of 1975, *JIS-S 80C & Sup 3.

These strips are supplied in bright finish & sheared edges suitable for bending & forming and then Heat Treated for required Hardness.



These strips are widely used for manufacturing Circlips, washers, Spring Dovels, Clutch Segment



These strips are widely used for making Coil Springs, Rulers, saw, Masny tools, saw Steel, Steel for Springs, Steel for masny tools which do not require severe bending or forming.

C80 grade Cold Rolled & Annealed Steel Strips

These Strips are stocked in different width, finish and hardness range between 40-50 HRC (Std. Size of hardened and Tempered Spring Steel Strips) in Grey, Bright polished, Blue polished surface finish.

Composition: C: 0.75-0.9%, Mn: 0.5-0.9%, Si: 0.10-0.35%, S&P: 0.04% Max.

These strips can be sheared with low burrs to customer's width requirements. On request and short lead time, tailor made Strips can be supplied as per customer's requirement of hardness, width, surface finish & different edges.

This grade compare well with following grades.

*AISI 1080/1085, *CK 75/80 (DIN), *HC-14/EN-42J/DIN 17200, *JIS-S 80C & Sup 3.

C98 grade Hardened and Tempered Spring Steel Strips

These Strips are stocked in different width, finish and hardness range between 40-54 HRC

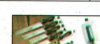
Composition: C: 0.95-1.0%, Mn: 0.5-0.9%, Si: 0.10-0.35%, S&P: 0.04% Max.

This grade of strip is stocked in Hardened & Tempered condition, in 450 HV - 550 HV. On request and short lead time, tailor made Strips can be supplied as per customer's requirement of hardness, width, surface finish & different edges.

This grade compare well with following grades: *AISI 1095 *20C

These strips are widely used for manufacturing Doctor's Blade, Compressor Valves, Shock Absorber Valves,

and Garage Tools, Shoe Shanks, Gardening Tools, Masonry Tools, Thrasher Knives, Profile cutting Knives, Paper Rubber cutting Knives etc..



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PHYSICAL PROPERTIES											
Grade	Designation	ANNEALED				HARDENED AND TEMPERED				Elongation, Percent, Min. Gauge Length 5.65	
		Vickers Hardness HV, Max.	Yield Stress N/mm2, Min	Tensile Strength N/mm2, Max.	Elongation, Percent, Min.	Vickers Hardness HV Max.	Yield Stress N/mm2, Min.	Tensile Strength N/mm2, Max.			
1	45C 6	185	270	590	30	350 to 425	1030	1080 to 1420	6		
2	55C 6	195									
3	65C 6	205									
4	70C 6	215									
5	75C 6	220	290	640	25	350 to 475	1080	1180 to 1570	6		
6	80C 6	220									
7	85C 6	220									
8	98C 6	225	310	690	25	475 to 540	1470	1570 to 1760	6		
9	55Si7	240	340	780	20	475 to 570	1470	1570 to 1960	6		
10	50Cr4	240	340	780	20	505 to 650	1570	1670 to 2260	5		
11	50Cr4V2	240	340	780	20	555 to 670	1760	1880 to 2360	4		

HARDNESS CONVERSION TABLE				
HRC	HRB	VPN(HV)	Ultimate Kg/mm sq	Tensile Strength n/mm sq
60		697		
59		674	229.20	2335.55
58		653	221.46	2256.68
57		633	214.43	2185.04
56		613	207.41	2113.51
55		595	201.78	2058.50
54		577	195.46	1993.60
53		560	189.13	1927.30
52		544	184.21	1879.90
51		528	177.80	1814.90
50		513	172.25	1756.90
49		498	168.04	1714.00
48		484	163.11	1663.70
47		471	158.19	1613.50
46		458	153.97	1570.40
45		446	149.05	1520.20
44		434	144.83	1477.20
43		423	141.33	1441.50
42		412	137.79	1405.40
41		402	134.28	1369.60
40		392	130.78	1339.90
39		382	127.24	1297.80
38		372	123.73	1262.00
37		363	120.82	1233.40
36	106.00	354	118.10	1204.60
35	108.50	345	114.59	1168.80
34	108.00	336	111.78	1140.10
33	107.50	327	108.26	1104.20
32	107.00	318	105.45	1075.50
31	106.00	310	102.61	1046.60
30	105.50	302	99.82	1017.10
29	104.50	294	97.01	989.50
28	104.00	286	94.20	959.90
27	103.00	279	92.00	938.00
26	102.50	272	89.28	909.80
25	101.50	266	87.17	889.10
24	101.00	260	85.06	886.15
23	100.00	254	82.95	846.10
22	99.00	248	80.84	825.20
21	98.50	243	79.70	812.90
20	97.80	238	77.34	788.80
18	96.70	230	74.52	760.10
16	95.50	222	71.70	731.30
14	93.90	213	68.90	701.80
12	92.30	204	66.08	674.00
10	90.70	196	63.27	645.30
08	89.50	188	61.16	623.80
06	87.10	180	56.24	573.60



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