

High carbon Steel

EN, DIN, UNI, AISI, JIS High carbon Steel, High carbon Steel plate, High carbon Steel sheet, High carbon Steel coil, High carbon Steel supplier

High carbon Steel description

High carbon Steel is steel that has more than 0.3 percent carbon, and is thus harder and less formable and machinable than low-carbon steel. High-carbon steels (for example, AISI 1055-1095, 1137-1151, and 1561-1572) are extremely strong yet more brittle. They offer better responses to heat treatment and longer service life than medium-carbon steels.

High-carbon steels typically have high wear resistance due to their superior surface hardness.

High carbon Steel Application

High carbon Steel is used mainly for cutting edges, compression springs, farming and gardening equipment, and other high-wear applications.

High carbon Steel can be also used for applications in which high strength, hardness and wear resistance are necessary, such as wear parts, knives, saw blades, springs, gear wheels, chains, brackets, washers etc. The formability is improved if the material is annealed before forming.

The main steel grade of high carbon steel are :

Material #: 1.0501, 1.0511, 1.0503, 1.054, 1.0535, 1.0601, 1.0603, 1.0605

EN 10083-2: C35, C40, C45, C50, C55, C60, 1 C 67, 1 C 75

NFA 33-101 : AF55-C35, AF60-C45, AF65-C45, AF70-C55, XC 68, XC 75

BS 970: 070 M 36, 070 M 40, 070 M 46, 070 M 50, 070 M 55, 070 M 60, 080A67, 080A72

Bebon steel — The most professional exporter on weathering resistant steel

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UNE 36011: C 35 k, C 45 k , C 55 k

SAE J 403-AISI :1035 , 1038 / 1040, 1042 / 1045, 1049 / 1050, 1055, 1060, 1070, 1074

JIS G 4051: S 35 C, S 40 C, S 45 C, S 50 C, S 55 C, S 58 C.

High carbon Steel equivalent grades

Material #	EN	DIN	NFA 33-	UNI 7846	BS 970	UNE 36011	SAE J 403-AISI	JIS G 4051
1.0501	C35	C 35	AF55- C35	C 35	070 M 36	C 35 k	1035	S 35 C
1.0511	C40	C 40	AF60- C45	C 40	070 M 40		1038 / 1040	S 40 C
1.0503	C45	C 45	AF65- C45	C 45	070 M 46	C 45 k	1042 / 1045	S 45 C
1.054	C50	C 50			070 M 50		1049 / 1050	S 50 C
1.0535	C55	C 55	AF70- C55	C 55	070 M 55	C 55 k	1055	S 55 C
1.0601	C60	C 60			070 M 60		1060	S 58 C
1.0603	1 C 67	C 67	XC 68	C 67	080A67		1070	
1.0605	1 C 75	C 75	XC 75	C 75	080A72		1074	

High carbon Steel Supply Size

Thickness: 8mm to 200mm

Width: 1500mm to 4200mm

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Length: 2000mm to 18000mm

High carbon Steel Delivery state

Hot Rolled, Cold Rolled, Normalized, Quenched, Tempering, Thermal Mechanical Control Process (TMCP), Electroslag Remelting Technical, HIC test.

High carbon Steel Services

Cutting, Painting, shot blast, and The third party inspection in DNV, BV, LR, GL, ABS, CCS , SGS, and others in super thick ship steel plate.

High carbon Steel Chemical composition

Steel grade	C (%)		Si (%)		Mn (%)		P (%)	S (%)	Cr (%)		Other min - max
	min	max	min	max	min	max	max	max	min	max	
Domex C22	0.17	0.24	0.15	0.35	0.40	0.70	0.025	0.025	0.20	0.40	
Domex C35	0.32	0.39	0.15	0.35	0.50	0.80	0.025	0.025	0.20	0.40	
Domex C45	0.42	0.50	0.15	0.35	0.50	0.80	0.025	0.025	0.20	0.40	
Domex C55	0.52	0.60	0.15	0.35	0.60	0.90	0.025	0.025	0.20	0.40	
Domex C60	0.57	0.65	0.15	0.35	0.60	0.90	0.025	0.025	0.20	0.40	

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Domex C67	0.65 - 0.73	0.15 - 0.35	0.60 - 0.90	0.025	0.025	0.20 - 0.40	
Domex C75	0.70 - 0.80	0.15 - 0.35	0.60 - 0.90	0.025	0.025	0.20 - 0.40	
Domex 42CrMo4	0.38 - 0.45	0.15 - 0.35	0.60 - 0.90	0.025	0.025	0.90 - 1.20	Mo 0.15 - 0.30
Domex 51CrV4	0.47 - 0.55	0.15 - 0.35	0.70 - 1.10	0.025	0.025	0.90 - 1.20	V 0.10 - 0.25

Bebon International is a global steel supply and stockholding company. Partnerships integrating the resources of the China's most technically advanced steel mills enable Bebon International to provide a single competitive source for the distribution of steel products worldwide.

Bebon International offer premium quality High carbon Steel Plates. These High carbon Steel plates have consistent and controlled properties, designed for withstanding the high tension for high-wear parts.

Bebon International has one of the widest steel plate product ranges in the world. Whether you are a designer, contractor or fabricator you will find our product range both modern and extensive. High carbon Steel offered by Bebon is in very high quality to support the requirements of those engaged in large projects.

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