

Steel with Cr., Mo.,Cr-Mo

ASTM , DIN, EN Steel with Cr., Mo.,Cr-Mo, Steel with Cr., Mo.,Cr-Mo plate, Steel with Cr., Mo.,Cr-Mo sheet, Steel with Cr., Mo.,Cr-Mo coil, Steel with Cr., Mo.,Cr-Mo supplier

Steel with Cr., Mo.,Cr-Mo description

Steel with Cr., Mo.,Cr-Mo is a family of SAE steel grades, as specified by the Society of Automotive Engineers (SAE). Alloying elements include chromium and molybdenum, and as a result these materials are often referred to as chromoly steel, molybdenum steel or CRMO. They have an excellent strength to weight ratio, are easily welded and are considerably stronger and harder than standard 1020 steel.

While these grades of steel do contain chromium, it is not in great enough quantities to provide the corrosion resistance found in stainless steel.

Steel with Cr., Mo.,Cr-Mo Application

The applications for Steel with Cr., Mo.,Cr-Mo includes structural tubing, bicycle frames, firearms receivers, clutch and flywheel components, and roll cages. One of the grade 4150 stands out as being one of the steels accepted for use in M16 rifle and M4 carbine barrels by the United States military. These steels are also used in aircraft parts and therefore Steel with Cr., Mo.,Cr-Mo grade structural tubing is sometimes referred to as "aircraft tubing".

The Main grade of Steel with Cr., Mo.,Cr-Mo. Are :

EN 10028-2:16 Mo 3,14 Cr Mo 45

DIN 17155:16 Mo 3,13 Cr Mo 44

AFNOR 36206:15 D 3,18 MD 4.05 15 MDV 4.05 15 CD 2.05 15 CD 4.05

Bebon steel — The most professional exporter on weathering resistant steel

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UNI 5869:16 Mo 3,16 Mo 6 ,14 Cr Mo 46

MNC830E:22.16.04 22.18.0

JIS 3103:450M 490 M

BS 1501 part 2: 271, 620gr27/31, 621 gr A/B , 622 gr.31 .

ASTM:A202 gr. A/B A 204 gr.A/B/C .A 302 gr.A/B A 387 gr11/12 CL1/2

Steel with Cr., Mo.,Cr-Mo equivalent grades

Europe	Germany	France	Italy	Sweden	Japan	U.K.	U.S.A
EN 10028-2	DIN 17155	AFNOR 36206	UNI 5869	MNC830E	JIS 3103	BS 1501 part 2	ASTM
16 Mo 3	16 Mo 3	15 D 3	16 Mo 3				
		18 MD 4.05	16 Mo 6	22.16.04	450M	271	A202 gr. A,B
		15 MDV 4.05		22.18.04	490 M		A 204
		15 CD 2.05					gr.A,B,C
14 Cr Mo 45	13 Cr Mo 44	15 CD 4.05	14 Cr Mo 46			620gr.27,31	A 302 gr.A,B
						621 gr. A,B	A 387 gr.11,12
						622 gr.31	

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Steel with Cr., Mo.,Cr-Mo Supply Size

Thickness: 8mm to 200mm

Width: 1500mm to 4200mm

Length: 2000mm to 18000mm

Steel with Cr., Mo.,Cr-Mo Delivery state

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

Steel with Cr., Mo.,Cr-Mo 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.

Steel with Cr., Mo.,Cr-Mo Chemical composition

SAE grade	% Cr	% Mo	% C *	% Mn	% P (max)	% S (max)	% Si
4118	0.40-0.60	0.08-0.15	0.18-0.23	0.70-0.90	0.035	0.040	0.15-0.35
4120	0.40-0.60	0.13-0.20	0.18-0.23	0.90-1.20	0.035	0.040	0.15-0.35
4121	0.45-0.65	0.20-0.30	0.18-0.23	0.75-1.00	0.035	0.040	0.15-0.35
4130	0.80-1.10	0.15-0.25	0.28-0.33	0.40-0.60	0.035	0.040	0.15-0.35
4135	0.80-1.10	0.15-0.25	0.33-0.38	0.70-0.90	0.035	0.040	0.15-0.35
4137	0.80-1.10	0.15-0.25	0.35-0.40	0.70-0.90	0.035	0.040	0.15-0.35
4140	0.80-1.10	0.15-0.25	0.38-0.43	0.75-1.00	0.035	0.040	0.15-0.35
4142	0.80-1.10	0.15-0.25	0.40-0.45	0.75-1.00	0.035	0.040	0.15-0.35

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4145	0.80–1.10	0.15–0.25	0.43–0.48	0.75–1.00	0.035	0.040	0.15–0.35
4147	0.80–1.10	0.15–0.25	0.45–0.50	0.75–1.00	0.035	0.040	0.15–0.35
4150	0.80–1.10	0.15–0.25	0.48–0.53	0.75–1.00	0.035	0.040	0.15–0.35
4161	0.70–0.90	0.25–0.35	0.56–0.64	0.75–1.00	0.035	0.040	0.15–0.35

* The carbon composition of the alloy is denoted by the last two digits of the SAE specification number, in hundredths of a percent

Steel with Cr., Mo.,Cr-Mo Mechanical properties

Material	Condition	Tensile strength [psi] (MPa)]	Yield strength [psi] (MPa)]	Elongation in 2" [%]	Hardness (Rockwell)
4130	Cold drawn— normalized[2]	85,000–110,000 psi (590–760 MPa)	70,000–85,000 psi (480–590 MPa)	20–30	B 90–96
4142	Hot rolled— annealed[2]	90,000–100,000 psi (620–690 MPa)	60,000–70,000 psi (410–480 MPa)	20–30	B 90–95
	Cold drawn— annealed[2]	105,000–120,000 psi (720–830 MPa)	85,000–95,000 psi (590–660 MPa)	15–25	B 96–100
4150	Hot rolled— annealed[2]	90,000–110,000 psi (620–760 MPa)	65,000–75,000 psi (450–520 MPa)	20–30	B 90–96

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.

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Bebon International offer premium quality Steel with Cr., Mo.,Cr-Mo Plates. These Steel with Cr., Mo.,Cr-Mo plates have consistent and controlled properties, designed for withstanding the high tension for structural tubing etc..

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. Steel with Cr., Mo.,Cr-Mo offered by Bebon is in very high quality to support the requirements of those engaged in large projects.

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