

ASTM A514 steel plate/sheet for High yield strength cold forming steel

Key words: [A514 steel plate/sheet](#), ASTM A514 steel plate/sheet, A514 steel plate/sheet supplier/Chinese supplier, A514 steel plate/sheet price, A514 steel plate/sheet mechanical property.

ASTM A514 steel equivalent grade:

A514 steel plate/sheet is in ASTM standard, the material number is 1.8974. The equivalent grades of A514 steel are EN 10149-2 S700MC, SEW 092 QStE 690 TM, NFA 36-231 E 690 D.

A514 ASTM Material #: 1.8974	Comparison of steel grades	
	EN 10149-2	S700MC
	SEW 092	QStE 690 TM
	NFA 36-231	E 690 D

ASTM A514 steel chemical composition %:

Main chemical composition in ASTM A514 steel, please refer to the down table:

Grade	C	Mn	P	S	Si	Ni	Cr	Mo	V	Ti	Cu	Co	B	Zr
A514Gr.A	0.15-0.21	0.80-1.10	0.035	0.035	0.40-0.80	-	0.5-0.8	0.18-0.28	-	-	-	-	0.0025	0.05-0.15
A514 Gr.B	0.12-0.21	0.7-1.00	0.035	0.008	0.20-0.35	-	0.4-0.65	0.15-0.25	0.03-0.08	0.01-0.04	-	-	0.005	-
A514 Gr.C	0.10-0.20	1.1-1.50	0.035	0.035	0.15-0.30	-	-	0.15-0.25	-	-	-	-	0.001-0.005	-

ASTM A514 steel mechanical property:

ASTM A514 steel plate/sheet is a quenched and tempered high yield strength steel used in structural applications where high strength and low weight are critical. The tensile yield strength of A514 is specified as at least 100ksi(689MPa) for thicknesses up to 2.5 inches(63.5mm) thick plate, and at least 110ksi(758MPa) ultimate tensile strength, with a specified ultimate range of 110-130 ksi (758-896 MPa). Plates from 2.5 to 6.0 inches (63.5 to 152.4 mm) thick have specified strength of 90 ksi (621MPa yield) and 110-130 ksi (758-896 MPa).

Grade	Thickness (mm)	Tensile strength .ksi [MPa]	Yield strength Min ksi [MPa]	Elongation in under 50mm, min by %	Hardness HBW
A514Gr.A	≤20 20-65	760-895 760-895	690 690	18 18	235-293
A514Gr.B	-	110-130 ksi	100 ksi, min	16 in 2 inch	235-293
A514Gr.C	≤20 20-65	760-895 760-895	690 690	18 18	235-293

ICE steel is the professional Chinese steel exporter, especially in fine-grain structural steel. We keep 10000 tons ex-stock in our warehouse, and the MTC and sample of ASTM A514 steel are available, so if need, welcome to contact ICE steel sales team.

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