

Cold Rolled CR Structural S CU200T-G steel

Revision 3, November 2003

This literature supersedes all previous issues

GENERAL DESCRIPTION

CU200T-G cold rolled and temper-rolled steel with a guaranteed minimum yield strength of 200 MPa suitable for general fabrication and welding.

TYPICAL USES

Tubing, general pressing.

AUSTRALIAN STANDARD

AS/NZS 1365

GUARANTEED PROPERTIES OF STEEL BASE

MECHANICAL PROPERTIES	GUARANTEED %
Transverse tensile	
Yield strength, MPa	200 min
Tensile strength, MPa	–
Elong on 80 mm, %	28 min
Hardness, HRB	65 max
180° transverse bend (L axis)	0t

CHEMICAL PROPERTIES	GUARANTEED MAXIMUM %	TYPICAL %
Carbon (C)	0.15	0.04 - 0.07
Phosphorus (P)	0.04	0.005 - 0.020
Manganese (Mn)	0.60	0.18 - 0.23
Sulphur (S)	0.04	0.008 - 0.020
Silicon (Si)	–	0.005 - 0.010
Aluminium (Al)	–	0.03 - 0.05
Nitrogen (N)	–	0.001 - 0.005

DIMENSIONAL CAPABILITIES

Preferred thickness mm	Width range mm		Sheet length mm
	Strip	Sheet	
0.50	20 - 1220	150 - 1220	1220 - 4880
0.70	20 - 1750	150 - 1750	1085 - 4880
1.1, 1.2	20 - 1810	150 - 1810	1085 - 4880
1.3, 1.5, 1.6	75 - 1810	150 - 1810	1085 - 4880
2.0	75 - 1810	150 - 1810	1085 - 4880
3.2	120 - 1350	150 - 1350	1085 - 4880

NOTE: Where maximum widths are less than 1200 mm, any width between half maximum and 610 mm is available by negotiation only. Availability applies only to product supplied direct from Western Port and may change if supplied from BlueScope Steel Service Centres. Slitting and shearing available on request from BlueScope Steel sales offices.

These dimensions are a reflection of technical capability to produce. Supply conditions may be subject to dimensional restrictions and is subject to BlueScope Steel Sales and Marketing confirmation.

NORMAL/OPTIONAL SUPPLY CONDITIONS

	Normal	Optional [#]
Surface finish	Matt	Lustre
Tolerance class		
Thickness	AT	BT
Width	AW	BW
Length	AL	BL
Flatness	AF	–
Oiling	Oiled	Not Oiled
Branding	Not Branded	–
Edge Condition	Mill Edge	Trimmed Edge

[#]Optional supply conditions may be subject to dimensional restrictions.

FABRICATING PERFORMANCE

Method	Rating
Bending	5
Drawing	2
Pressing	2
Roll-forming	5
Welding	5
Painting (pretreatment)	5

where 1 = limited to 5 = excellent, or NR = not recommended

Note: It is recommended that customers use product promptly to avoid the possibility of rusting during storage. Oiling improves corrosion resistance but oiled product should be used within three months.

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Please ensure you have the current data sheet for this product as displayed at www.bluescopesteel.com.au

BlueScope Steel Limited

BlueScope Steel Limited ABN 16 000 011 058
BlueScope Steel (AIS) Pty Ltd ABN 19 000 019 625

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Produced by Artimprint (02) 9984 8586



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TYPICAL PROPERTY RANGES (FOR NORMAL SUPPLY PRODUCT)

Thickness mm	Yield Strength & Tensile Strength MPa																			
	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	
0.60 - 0.79																				
0.80 - 1.20																				
1.21 - 2.49																				
2.50 - 3.20																				

Key proof stress tensile strength

Thickness mm	Uniform Elongation & Total Elongation (%)																														
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	
0.60 - 0.79																															
0.80 - 1.20																															
1.21 - 2.49																															
2.50 - 3.20																															

Key uniform elongation total elongation

Thickness mm	r-value												
	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6
0.60 - 0.79													
0.80 - 1.20													
1.21 - 2.49													
2.50 - 3.20													

Note: Typical properties from 80mm gauge length test piece in the transverse direction.

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