



Data Sheet

NZCC - SD MOD Tube

Cold-Rolled

Revision: 31/1/2012

GENERAL DESCRIPTION

Cold rolled annealed and skin-passed steel specifically developed for tube manufacture. Specific customer requirements can be met within the specification.

APPLICATIONS

- Tube making

STANDARDS

- AS/NZS 1365:1996
- NZ Steel Standard

CHEMICAL COMPOSITION	TYPICAL (wt %)	EXPECTED MAXIMUM (wt %) ^[1]
Carbon (C)	0.035	0.050
Silicon (Si)	0.002	0.025
Manganese (Mn)	0.186	0.220
Sulphur (S)	0.017	0.025
Phosphorus (P)	0.013	0.020

MECHANICAL PROPERTIES	TYPICAL	EXPECTED
0.2% Proof Stress, MPa	185	150 – 200
Tensile strength, MPa	320	285 – 330
Elongation, % on L ₀ = 50mm	48	33% Min
HRB Hardness	49	–

Material should be used promptly (within 6 months) to avoid the possibility of storage related corrosion and degradation.

Mechanical properties are given for ambient/room temperatures. Please consult technical representatives at New Zealand Steel for high/low temperature use.

FABRICATING PERFORMANCE 1 = Limited 5 = Excellent	
METHOD	RATING
Drawing	4
Pressing	4
Bending	5
Roll-forming	5
Welding	5

AVAILABLE FORMS	
Coil	Mill Edge
Sheet	Trim Edge

DIMENSION CAPABILITIES	
THICKNESS (mm)	WIDTH (mm)
0.450 – 0.499	900 – 1250 (Mill edge only)
0.500 – 0.599	900 – 1250
0.600 – 0.799	900 – 1350
0.800 – 2.000	612 – 1350
2.001 – 2.500	622 – 1350
2.501 – 3.000 ^[1]	900 – 1250

^[1] Thickness greater than 2.500mm is only available as mill edge.

(T) = Trim edge, (M) = Mill edge

SURFACE FINISHES
Matt finish suitable for painting and exposed non-critical applications

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