



NZCE-SD

Cold-Rolled

Revision: 31/1/2012

GENERAL DESCRIPTION

Cold-rolled annealed and skin-passed steel of commercial quality, capable of extra deep drawing and pressing, and with a surface finish suitable for exposed non-critical applications

APPLICATIONS

- Core tips (newsprint industry)
- Drawn automotive parts

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)	0.190	0.220
Sulphur (S)	0.017	0.025
Phosphorus (P)	0.013	0.020
Nitrogen (N)	0.006	0.008

MECHANICAL PROPERTIES	TYPICAL	EXPECTED
0.2% Proof Stress, MPa	165	200 Max
Tensile strength, MPa	300	270 – 330
Elongation, % on L ₀ = 50mm	52	41% Min
HRB Hardness	42	30 – 50

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	5
Pressing	5
Bending	5
Roll-forming	5
Welding	5

DIMENSION CAPABILITIES	
THICKNESS (mm)	WIDTH (mm)
0.5 - 0.8	1080 - 1250
0.8 - 1.0	1150 - 1300
1.0 - 2.0	830 - 1300

Other dimensional combinations may be available by enquiry.

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

AVAILABLE FORMS	
Coil	Mill Edge
Sheet	Trim Edge

New Zealand Steel Limited

Auckland
 Tel. +64 9 375 8999
 Fax. +64 9 375 8213
 A BlueScope Steel Company

www.nzsteel.co.nz
 nzsteel@bluescopesteel.com
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