

CA5SN-E steel

General description

Cold-rolled, skin-passed, extra-deep drawing steel suitable for drawn components in exposed applications. Guaranteed non-aging and free from stretcher strain.

Typical uses

Exposed extra-deep drawn parts for automotive and appliance end uses.

Australian and International Standards

AS/NZS 1595:1998

AS/NZS 1365:1996 (R2016)

ISO 9001:2015 Quality System Certified

Guaranteed properties of steel base



Mechanical Properties	Guaranteed Value
Yield Strength, MPa (transverse tensile)	200 max
Elongation on 80mm, % min	≥ 0.6mm <0.8mm, 39% min ≥ 0.8mm, 40% min
Plastic strain ratio (r_{90}) min	≤1.6mm, 2.0 min >1.6mm, 1.8 min

Chemical composition of steel base

Chemical Properties	Guaranteed Maximum %
Carbon - C	0.02
Manganese - Mn	0.30
Phosphorus - P	0.025
Sulfur - S	0.020

Dimensional capabilities

Thickness range (mm)	Maximum Width (mm)
0.60 – 3.20	1525

Notes: Not every combination of thickness and width may be available. Supply conditions may be subject to dimensional restrictions and are subject to BlueScope Sales and Marketing confirmation. Slitting and shearing available on request from BlueScope Sales Offices. For requirements outside the standard product range please contact your local Sales Office.

Supply conditions

Attribute	Normal	Optional
Surface Condition	Matt	-
Surface Treatment	Oiled	Not Oiled
Branding	Not Branded	-
Tolerance - Dimensions	Class A	Class B
Tolerance - Flatness	Class A	-
Edge Condition	Trimmed Edge	Mill Edge

Important Notes: Optional supply conditions may be subject to dimensional restrictions

Fabricating performance

Method	Rating
Bending	5
Drawing	5
Pressing	5
Roll Forming	5
Welding (design must allow for some strength reduction near welds)	5
Painting Pre-treatment	5

Where: 1 = Limited to 5 = Excellent or NR = Not Recommended

The ratings in this table are general indicators only, given as a guide to fabricating performance.

Fire hazard properties

Test & Evaluation Method	Result
Combustibility test for materials (AS 1530.1-1994 (R2016))	Not deemed combustible (steel substrate) #

These test results relate only to the behaviour of the test specimens of the material under the particular conditions of the test and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

Important information

Material should be used promptly to avoid the possibility of a storage related corrosion. Oiling improves corrosion resistance, but oiled product should be used within three months.

steel.com.au

To ensure you have the most current information

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For more information contact Steel Direct



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