

XLERPLATE® steel

AS/NZS 3678 – K1042

General description

A heat treatable grade for general engineering applications.

Typical uses

General engineering parts

Profile cut gears

Wear / abrasion applications

Features & benefits

Abrasion / wear properties improved on heat treatment

Warnings

This material should be used in conjunction with the appropriate structural design and welding standards.

An untrimmed (mill) edge may contain surface discontinuities associated with the rolling process (refer to clause 8 of AS/NZS 3678). The plate supplied may include an amount outside of the nominal ordered width, in accordance with relevant Australian standards. The area of the supplied plate which is outside of the nominal (customer ordered) width must not be used. Customers are advised to remove an equal width from each side of the plate when trimming.

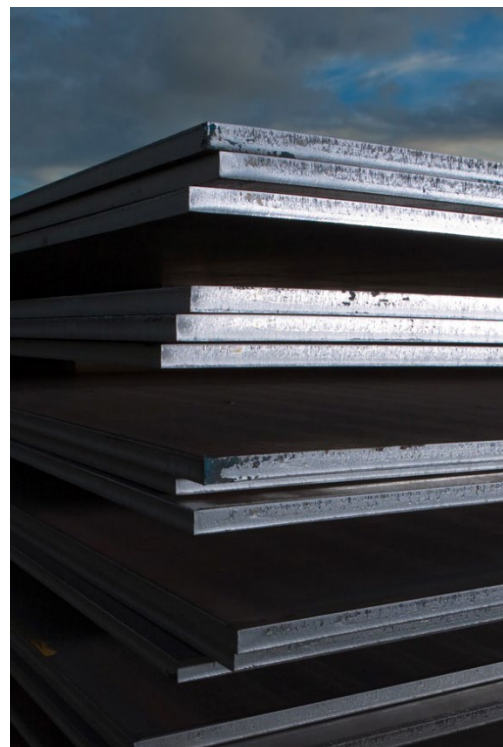
This grade is supplied in the rolled condition. Specific applications may require heat treatment.

Australian and International Standards

AS/NZS 3678:2016

AS/NZS 1365:1996 (R2016)

ISO 9001:2015 Quality System certified



Normal / optional supply conditions

	Normal	Optional
Thickness Range	10mm – 100mm	-
Availability	Available in standard sizes	Sizes outside standard plate offer are available by enquiry
Edge Condition	Untrimmed (Mill Edge)*	-
Tolerances	AS/NZS 1365:1996	-
Ultrasonic Inspection	-	AS 1710:2007
Surface Inspection	BlueScope	Third party
Certification	BlueScope	Third party endorsed

Optional supply conditions may be subject to dimensional restrictions

Chemical composition

Element	Guaranteed Maximum %
Carbon	0.47
Silicon	0.5
Manganese	0.90
Phosphorus	0.040
Sulfur	0.040
Chromium*	0.25
Nickel*	0.50
Copper*	0.40
Molybdenum*	0.10
Aluminium	0.10
Titanium	0.040

All values shown refer to the relevant Australian Standard unless otherwise stated

*Chrome + Nickel + Copper + Molybdenum \leq 1.00 %

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.

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To ensure you have the most current information

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