

# Hot rolled strip

## XK15B28

### General description

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Hot rolled carbon steel with a guaranteed chemical composition designed for applications requiring good wear resistance after heat treatment.

### Typical uses

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Ground engaging tools

Plough points and discs

Wear/abrasion applications

### Features & benefits

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Abrasion resistance properties on heat treatment

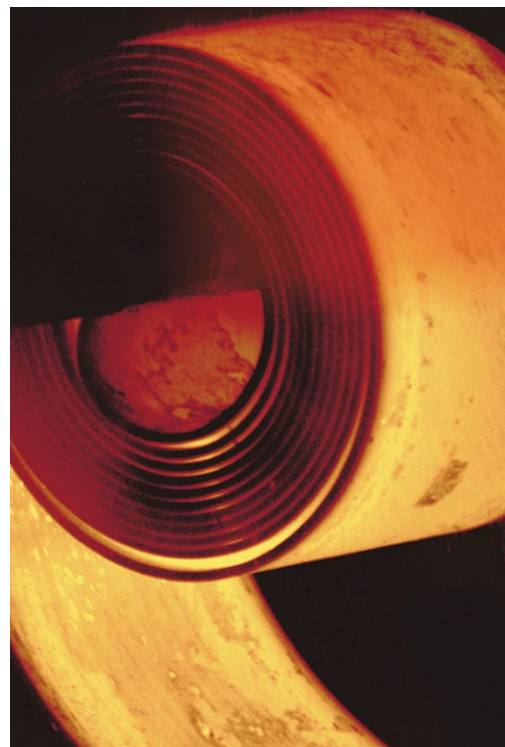
Excellent hardness/toughness balance after heat treatment

Boron treated for consistent hardness after heat treatment

Excellent hardenability and can be hardened in oil and water

Good formability in the non-heat-treated state compared to higher carbon grades

Titanium treated for resistance to grain coarsening on re-heating for enhanced final product toughness



### Warnings

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This grade is supplied in the as-rolled condition only. Most applications require the material to be quenched and tempered. The steel properties are dependent on the heat treatment process used and a suitable heat treatment process needs to be established by user trials and evaluation.

An untrimmed edge (Mill Edge) may contain minor surface discontinuities as a result of the rolling process. It is recommended that customers satisfy themselves that the edge is suitable for the application.

Free from coil break for 3 months after production.

Material should be stored under cover to avoid issues with storage related corrosion.

### Australian and International Standards

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AS/NZS 1594:2002 (R2016)

AS/NZS 1365:1996 (R2016)

ISO 9001:2015 Quality System Certified

## Supply conditions

	Normal	Optional
Thickness Range	2 – 8.0 mm *	-
Width Range	800 - 900mm *	-
Surface Finish	Hot Rolled	-
Edge Condition	Untrimmed (Mill Edge)	Trimmed
Tolerance	AS/NZS 1365:1996 (R2016)	-
Certification	BlueScope	-

\* Not all thickness & width combinations are available  
Optional supply conditions are subject to dimensional restrictions

## Chemical composition

Element	Guaranteed Range or Maximum %
Carbon	0.25 – 0.29
Silicon	0.50
Manganese	1.50
Phosphorus	0.030
Sulfur	0.020
Aluminium	0.10
Boron	0.0008 – 0.0030
CEQ (IIW)	0.64

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

$$CEQ(IIW) = C + \frac{Mn}{6} + \frac{(Cr + Mo + V)}{5} + \frac{(Cu + Ni)}{15}$$

## Mechanical properties

No guaranteed mechanical properties. The grade is supplied in the as-rolled condition only. Most applications require the material to be heat treated by the user. The properties achieved are dependent on the user's heat treatment process and must be established and confirmed by the user's own trials and evaluation.

## Weldability Group

Not recommended for welding.

## 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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