

# Hot rolled strip

## XK15B28

### General description

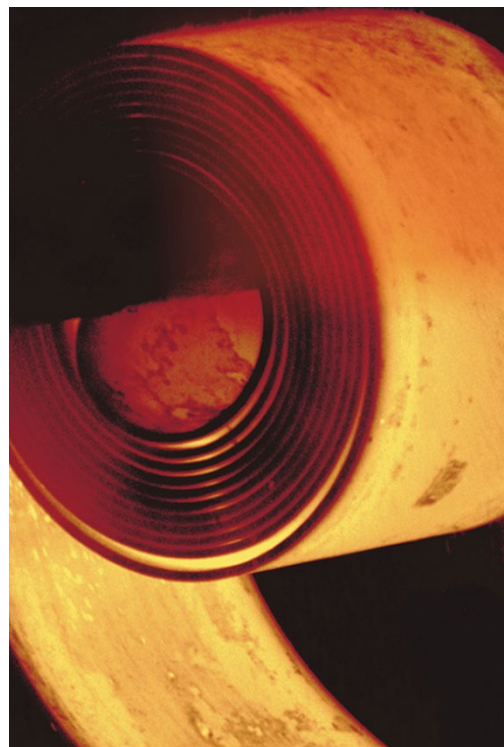
Hot rolled carbon steel with a guaranteed chemical composition designed for applications requiring good wear resistance after heat treatment.

### Typical uses

Ground engaging tools  
Plough points and discs  
Wear/abrasion applications

### Features & benefits

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

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.

The surface of hot rolled grades may exhibit surface blemishes that while complying to AS/NZS 1594 may be visible through some surface coatings. For applications where surface finish is critical, AS/NZ 1595 cold rolled grades should be considered.

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

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.

Galvanised Coating Characteristics Related to Steel Composition

Not designed for galvanising.

Weldability Group

Not recommended for welding.

Fire hazard properties

NCC 2022	Deemed
NCC 2022 Vol 1, Part C2, C2D10, (5)(b)	Non-combustible

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