

# voestalpine HIGH PERFORMANCE METALS

## AISI 1020 / 1.0402 / G10200

### DESCRIPTION

1020 carbon steel is a commonly used plain carbon steel. It has a good combination of strength and ductility and can be hardened or carburized.

### NEAREST STANDARDS

AISI	DIN	BS	UNS
1020	1.0402 C22	EN3B	G10200

### CHEMICAL ANALYSIS (AVE %)

C	Si	Mn	Ni	Cr	Mo	S	P
0.20	0.25	0.45	-	-	-	0.04	0.04

### HEAT TREATMENT (RECOMMENDED)

Carburize	900-950c. Furnace or Air cool.
Harden	780-800c. Water quench.
Temper	180-210c. Air cool.

### MECHANICAL PROPERTIES (REFERENCE)

	Tensile Strength (MPa)	Yield Strength (MPa)	Elongation (%)
Cold Drawn	430-790	340-610	10-13
Turned & Polished	410-560	230-330	22

# voestalpine HIGH PERFORMANCE METALS

## AISI 1020 / 1.0402 / G10200

### SUPPLY CONDITION

As Rolled

### SURFACE TREATMENT

Cold Drawn (H10)

Turned & Polished (H11)

### SIZE RANGES

For stocked sizes and to view availability at your local branch, visit the [vHPM Australia Webshop](#)

### PERFORMANCE IS IN OUR DNA

voestalpine High Performance Metals is the global market leader in the production of tool steels and one of the world's leading suppliers of high-speed steels, valve steels, special steels, powder metallurgy steels, and nickel-based alloys. We also manufacture die-forged components and large castings from nickel-based alloys and high, medium and low alloy steels.

Customers rely on our key brands of Bohler, Uddeholm and Villares, to set the highest standards of innovation, quality and service across a wide range of industries including automotive, aerospace, consumer electronics and oil & gas. We are fully integrated from steel production through to local customer sales, ensuring we keep our customers One Step Ahead.

### EXPLORE WHAT IS POSSIBLE.



#### voestalpine High Performance Metals Australia

17 Distribution Drive

Orchard Hills, NSW, 2748

T. +61 02 4744 9496

E. [info@voestalpine.com.au](mailto:info@voestalpine.com.au)

[www.voestalpine.com/hpm/australia](http://www.voestalpine.com/hpm/australia)

**voestalpine**

ONE STEP AHEAD.