

# voestalpine HIGH PERFORMANCE METALS

## AISI 9310 / 1.5752 / EN36A

### DESCRIPTION

Chromium, Nickel Case Hardening steel for applications requiring excellent wear surface and high toughness and core strength. In particular medium to large cross sections.

### NEAREST STANDARDS

AISI	DIN	BS	UNS
9315	1.6723 / 14NiCr14	EN36A	-

### CHEMICAL ANALYSIS (%)

C	Si	Mn	Ni	Cr	Mo	S	P
0.13	0.20	0.45	3.50	0.80	-	0.025	0.025

### HEAT TREATMENT (RECOMMENDED)

Forge	850-1050c. Cool in furnace.
Normalise	850-880c. Air cool.
Anneal	650-700c. Cool slowly in controlled furnace.
Carburize	880-950c Furnace or Air cool.
Core Refine	850-880c Oil quench or Air cool.
Harden	760-780c Oil quench
Temper	180-210c Air cool.
Annealed Hardness	229 HB max.

### MECHANICAL PROPERTIES (CARBURISED)

Diameter	Tensile Strength (Mpa)	Yield Strength (Mpa)	Elongation (%)	Red. of area %
11	980-1280	785	8	35
30	880-1180	765	9	40
63	780-1080	635	10	40

# voestalpine HIGH PERFORMANCE METALS

## AISI 8420 / 1.6587 / E110

### SUPPLY CONDITION

Annealed

### SURFACE TREATMENT

Peeled & Polished (H10/H11)

### 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.