

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 / SAE	DIN	BS	UNS
9310	1.5752 / 14NiCr14	EN36A	G33106 / G93106

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

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SUPPLY CONDITION

Annealed

SURFACE TREATMENT

Peeled & Polished (H10/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.



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ONE STEP AHEAD.