

# voestalpine HIGH PERFORMANCE METALS

## AISI 316 / 1.4404 / UNS31600

### DESCRIPTION

316 is dual certificated (316/316L) austenitic chromium nickel molybdenum steel and is produced in many sections including Hollow bar. 316 is resistant to intergranular corrosion in the temperature range up to 300°C in bar up to 40mm diameter.

### NEAREST STANDARDS

AISI	DIN	BS	UNS
316	1.4301 / X5CrNiMo17-12-2	316S31	S31600

### CHEMICAL ANALYSIS (AVE %)

C	Si	Mn	Ni	Cr	Mo	S	P
0.03	0.50	1.40	11.50	17.00	2.20	<0.030	<0.045

### HEAT TREATMENT (RECOMMENDED)

Anneal	1000-1100c. Quench in water or air
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### MECHANICAL PROPERTIES (HEAT TREATED)

Tensile Mpa (Rm)	Yield Strength (MPa)	Elongation (%)	Impact Toughness (J)
500-700	200	40	100

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### SUPPLY CONDITION

Annealed

### SURFACE TREATMENT

Machined

Peeled & Polished

### 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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**voestalpine**

ONE STEP AHEAD.