

# voestalpine HIGH PERFORMANCE METALS

## CAST IRON / BU DUCTILE CI 3D

### DESCRIPTION

Ductile irons differ from the grey irons in that the graphite occurs as spheroids or nodules instead of flakes. The resulting material has generally higher strength than grey iron, is ductile rather than brittle, tough and readily machined.

### NEAREST STANDARDS

AISI	DIN	BS	JIS
1831-400	1693-GGG-40	2789-SNG 27/12	FC-D45

### CHEMICAL ANALYSIS (AVE %)

C	Si	Mn	Ni	Cr	Mo	S	P	Mg	Cu
3.55	2.50	0.30	0.03	0.02	0.01	0.1	0.01	0.04	0.05

### MECHANICAL PROPERTIES

Tensile Strength (Mpa)	Permanent Set Stress (Mpa)	Elongation (%)	Hardness (HB)
415	277	12	187 Max

### SUPPLY CONDITION

Annealed
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### SURFACE TREATMENT

Black
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## 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.