

DTH HAMMERS

voestalpine MINING & ROCK HANDLING
PISTONS, SUBS & OUTER TUBES

WHEN PERFORMANCE MATTERS

The mining industry is one of the most demanding industry sectors when it comes to component wear and abrasive damage. Premature failure of these components can result in significant asset downtime and negative impact to productivity.

voestalpine High Performance tool steels have demonstrated exceptional performance in a wide range of drilling components such as pistons, drive subs, tops subs and outer tubes. The resulting increase in component service life means that voestalpine tool steels are an extremely cost effective solution for many high wear applications.

Our tool steels offer an excellent combination of toughness and wear resistance, which makes them an ideal replacement for traditional case hardened, or high tensile steel grades. In additon, they can also be a cost effective alternative to tungsten carbides, where ductility and chipping resistance are required.

Proven component service life improvement compared to standard steel grades

CHARACTERISTICS:

» Excellent resistance to both abrasive and adhesive wear
» High hardness (up to 64 HRC)
» High strength, with excellent ductility and toughness
» Sustainable material production (up to 97% recycled content)

STRONG. SAFE. SUSTAINABLE.

voestalpine High Performance Metals GmbH
www.voestalpine.com/hpm/mining

voestalpine
ONE STEP AHEAD.

VOESTALPINE PREMIUM MATERIAL GRADES

BÖHLER	Uddeholm / ASSAB	Villares	W.N.R (EN/SEL)	MAX. (HRC/HB/HV)
M238 / M238 HH	718 HH / Impax Supreme	VP20ISO	1.2738	330 / 400 HB
-	Nimax	-	PATENT	400 HB
K455	-	-	1.2550	58
K600	-	-	1.2767	55
K888 MATRIX	-	-	PATENT	64
-	Calmax	-	1.2358	60
W302 ISODUR	8407S / Ovar Supreme	VH13IM	1.2344	54
W360 ISODUR	Unimax	VTMPLUS	PATENT	57
-	Caldie	-	PATENT	60

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 GmbH
Donau-City-Strasse 7
1220 Vienna
T. +43 50304 10 0
E. mining@voestalpine.com
www.voestalpine.com/hpm/mining

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