



TOOL STEELS FOR DRILLING APPLICATIONS

WHEN PERFORMANCE MATTERS

The exploration industry is one of the most demanding industry sectors when it comes to component wear and abrasive damage.

Traditionally, many of the parts produced for this sector rely on standard case hardened and high tensile steel grades, but what if there was another way?

The adoption of voestalpine High Performance tool steels in the mining sector, has been proven to be successful across a wide range of applications including drill and break out clamps. The resulting increase in component service life means that voestalpine tool steels can be an extremely cost effective solution for many applications.

voestalpine High Performance Metals offer **more than 250 tool steel grades**, each grade has been developed and produced at our advanced steel mills at **BOHLER (Kaphenberg) & UDDEHOLM (Hagfors)**.

With voestalpine High Performance Metals you can be assured we have material grades designed to perform in the most demanding environments.

Keeping you **One Step Ahead**.

EXPLORE WHAT'S POSSIBLE

voestalpine High Performance tool steels have been used in the exploration industry for many years, and customers who have adopted our tool steels in their products report **significant increases in tool life and reduced operational costs**.

Our tool steels offer an excellent combination of toughness and wear resistance, which makes them **an ideal replacement for traditional case hardened, quenched and tempered or high tensile steels** in a variety of applications, such as:

- Breakout Clamps
- Drill Clamps
- Tong Dies
- Rod Wipers
- Drive keys & wear plates

voestalpine High Performance Materials

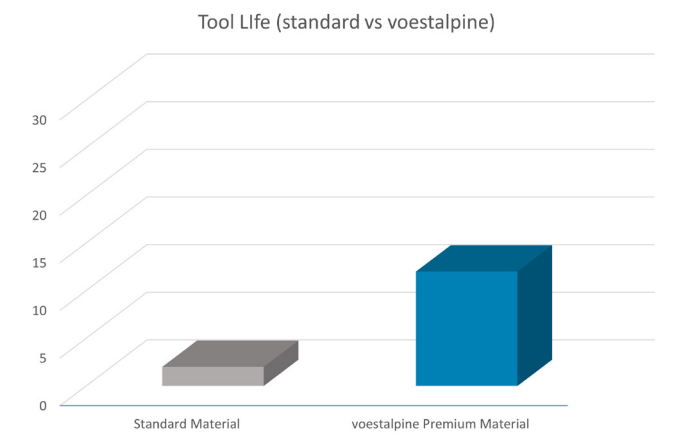
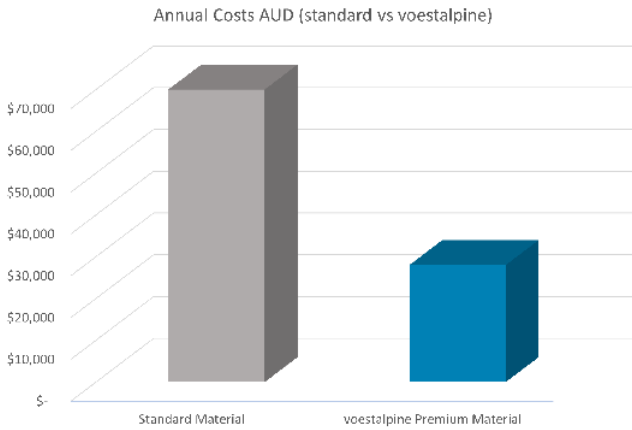
High strength & hardness (up to 64 HRC)

High wear & abrasion resistance

High ductility (chipping resistance)

High toughness (gross cracking resistance)

BREAKOUT CLAMP PERFORMANCE (Standard Material vs voestalpine Premium Materials Grade)



*Case study data based on actual customer use case. Material performance results will vary based on application, material selection and equipment usage.

CLAMP DOWN ON TOOLING COSTS

voestalpine High Performance tool steels can help you and your customers reduce replacement or spare tooling costs, reduce asset downtime and increase profitability.

With over 350 years of steel making experience, you can be assured the voestalpine team can help your engineers select the right tool steel for the application.

- Improve component life (10x)*
- Increase asset up-time / availability
- Increase profitability
- Reduce the operating cost of consumable parts
- Reduce total cost of ownership
- Reduce OH&S risks

High Performance Materials for Drilling Applications

BÖHLER K110	Abrasion
BÖHLER K245	Abrasion/Impact Toughness
BÖHLER K340	Abrasion/Impact Toughness
BÖHLER W360	Abrasion/Impact Toughness
Uddeholm Calmax	Abrasion/Impact Toughness
Uddeholm Orvar Supreme	Abrasion/Impact Toughness



CONTACT US

For more information scan the QR code, visit our website or contact our technical sales team.

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