

DIE CASTING

voestalpine Sub Inserts - Conventional designed for pure performance

YOUR ADDED VALUE

voestalpine Sub Inserts for die-casting applications are produced with premium materials by BÖHLER/ Uddeholm. The finished products include voestalpine heat treatment, final machining, and eifeler PVD coating to deliver high-performance solutions that are ready for foundry use. Our sub inserts offer outstanding high-temperature wear resistance, excellent ductility (gross crack resistance), premium tempering resistance, significant soldering reduction (with eifeler PVD coating), high heat-checking resistance as well as high thermal conductivity. These superior properties lead to reduced downtime and maintenance effort, thereby substantially increasing OEE. To meet the highest level of demand, these sub inserts are available with a hardness of up to 57 HRC.

INDUSTRIAL PERFORMANCE COMPARISON

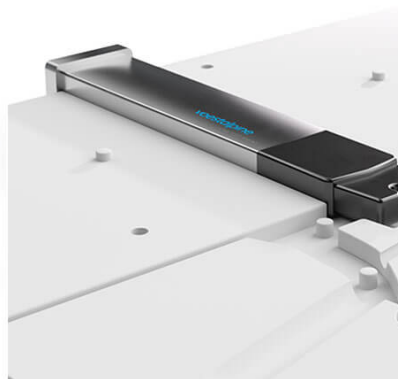
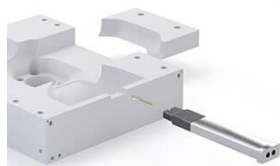
- > **Increased lifetime**
- > **Reduced maintenance and cleaning effort**
- > **Reduced downtime**
- > **Reduced scrap rate**

Main Properties

- Outstanding high-temperature wear resistance
- Premium tempering resistance
- Excellent ductility (safety against cracks)
- High soldering resistance (with PVD coating)
- High thermal conductivity

Technical Data

Material	premium materials by BÖHLER/ Uddeholm
Hardness Level	50 – 57 HRC
PVD Coating	voestalpine special coatings
Cooling (as required by customer)	Applicable with and without integrated cooling



OUR MATERIALS

C	Si	Mn	Cr	Mo	V
0.50	0.20	0.25	4.50	3.00	0.60

C	Si	Mn	Cr	Mo	V
0.38	0.30	0.75	2.60	2.25	0.90

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voestalpine
ONE STEP AHEAD.