



DIE CASTING

voestalpine Sprues - AM designed for pure performance

YOUR ADDED VALUE

voestalpine AM Sprues for die-casting applications are produced with premium materials by BÖHLER/ Uddeholm. Used mainly in three-plate die casting molds, these finished products include voestalpine heat treatment, final machining, eifeler PVD coating, and customized conformal cooling. Our additively manufactured (AM) sprues offer outstanding high-temperature wear resistance, excellent ductility (gross crack resistance), premium tempering resistance, significant soldering reduction, high heat-checking resistance, as well as high thermal conductivity. AM versions are further enhanced with our customized high-performance conformal cooling design to attain the highest efficiency in die temperature control. These superior properties enable reduced downtime, maintenance effort and cycle time, thereby substantially increasing OEE.

INDUSTRIAL PERFORMANCE COMPARISON

- > **Reduced cycle time**
- > **Reduced scrap rate**
- > **Increased lifetime**
- > **Reduced maintenance effort**
- > **Reduced fluctuations in casting quality**

Main Properties

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

Technical Data

Material	premium materials by BÖHLER/ Uddeholm
Hardness Level	50 – 57 HRC
PVD Coating (optional)	voestalpine special coatings
Cooling	voestalpine tailored conformal 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
0.35	0.20	0.50	5.00	2.30	0.60

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July_2025_US

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ONE STEP AHEAD.