

# Engineered Products



DIE CASTING

## voestalpine SPRUES - AM designed for pure performance

Over the years, our customized sprues have proven their superior quality in all major industry segments such as automotive, white goods and many more.

### 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.

#### Main Properties

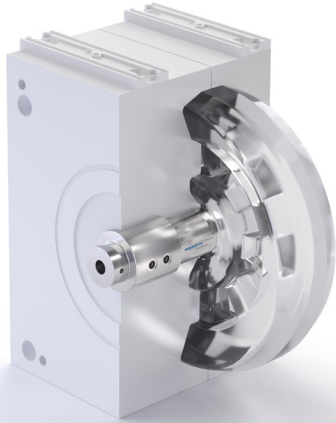
Outstanding high-temperature wear resistance

Premium tempering resistance

Excellent ductility (safety against cracks)

High soldering resistance

High thermal conductivity



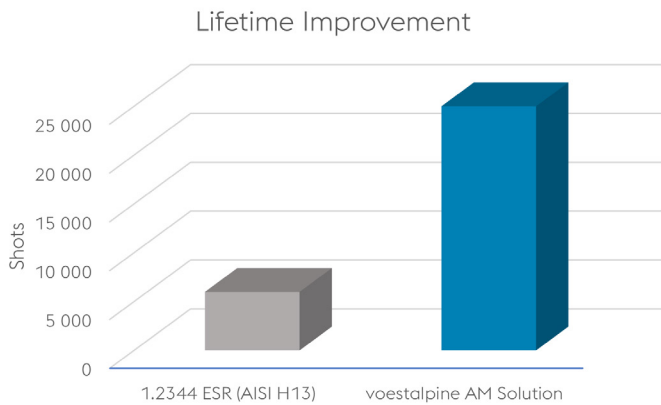
## INDUSTRIAL PERFORMANCE COMPARISON

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

## 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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**voestalpine**

ONE STEP AHEAD.