

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



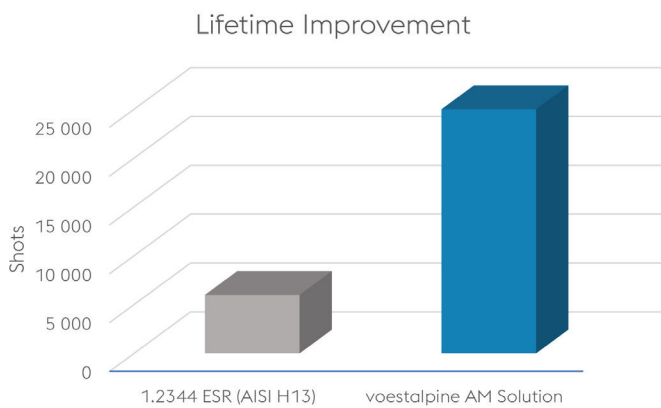
INDUSTRIAL PERFORMANCE COMPARISON

- » **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



© 2024 voestalpine voestalpine High Performance Metals GmbH. All Rights Reserved. You must obtain prior written permission from voestalpine voestalpine High Performance Metals GmbH for the reproduction, republication, redistribution, transmission, sale, modification, or adaptation of any content hereof. This publication is correct to the best of our knowledge and belief at the time of writing, but it is for general information purposes only and does not provide professional advice of any kind. This publication is provided "as is" without warranty of any kind. voestalpine voestalpine High Performance Metals GmbH shall not be liable for any loss, damage or cost resulting from any inaccuracies, omissions, errors or from any decisions taken in reliance on this publication. This does not limit liability that cannot be limited under law.

voestalpine High Performance Metals GmbH

Donau-City-Straße 7
 1220 Vienna, Austria
 T. +43/50304 10 - 0
 office.edelstahl@voestalpine.com
 www.voestalpine.com

October_2024_EN

voestalpine

ONE STEP AHEAD.