

# Engineered Products



DIE CASTING

## voestalpine WATER JACKETS - CONVENTIONAL designed for pure performance

Over the years, our customized water jackets have proven their superior quality worldwide in the automotive industry.

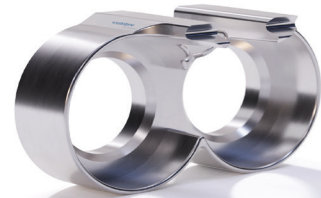
### YOUR ADDED VALUE

voestalpine Water Jackets are exchangeable tool inserts used for casting aluminum engine blocks. The curved walls of this important component are very thin and generally vary in thickness from top to bottom. To fully leverage this complex form, a superior solution is required. We offer this through a combination of **premium materials by BÖHLER/Uddeholm**, voestalpine heat treatment, final machining, and eifeler PVD coating.

Our Water Jackets 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 enable reduced downtime and maintenance effort, thereby substantially increasing OEE.

### Main Properties

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



## INDUSTRIAL PERFORMANCE COMPARISON

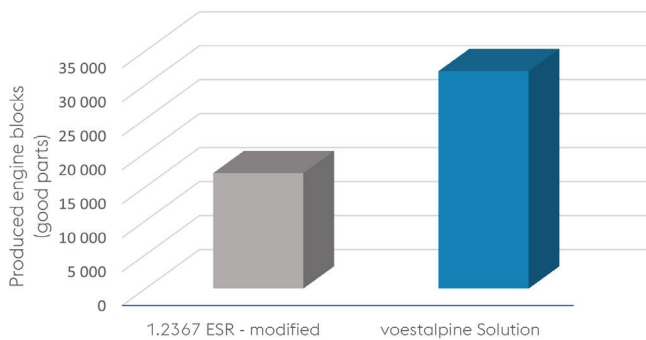
- » Increased lifetime
- » Reduced maintenance and cleaning effort
- » Reduced fluctuations in casting quality

## OUR MATERIALS

C	Si	Mn	Cr	Mo	V
0.38	0.20	0.55	5.00	1.80	0.55

C	Si	Mn	Cr	Mo	V
0.35	0.20	0.50	5.00	2.30	0.60

Lifetime Improvement



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**voestalpine**

ONE STEP AHEAD.