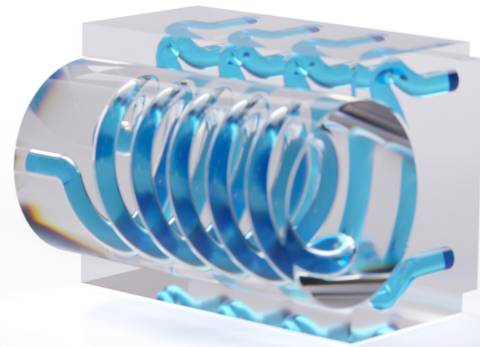


Engineered Products



PLASTICS

voestalpine INSERTS FOR CYLINDRICAL CONTAINERS designed for pure performance

Inserts for cylindrical containers are used in plastic injection molding, where they provide an excellent cooling system and enable high quality and low cycle times.

YOUR ADDED VALUE

Our cylindrical containers are produced using additive manufacturing (AM) and **premium materials by BÖHLER/Uddeholm**. The cylindrical container inserts provide optimized conformal cooling structures that enable our customers to perform stable and highly efficient production process resulting in a cost reduction per produced part.

This ready to use solution offers an overall cycle time reduction of up to 26% compared to conventionally manufactured drilled channels. Improved part tolerances are also achieved through homogeneous and conformal cooling design that also leads to lower scrap rates and further increased productivity.

Many global acting plastic injection molding companies, working within several industries, have confirmed the premium functionality and profitability of our wear and corrosion resistant inserts.

INDUSTRIAL PERFORMANCE COMPARISON

- » **Reduced scrap rate**
- » **Significant maintenance savings**
- » **Improved lifetime**
- » **Reduced cycle time**

Main Properties

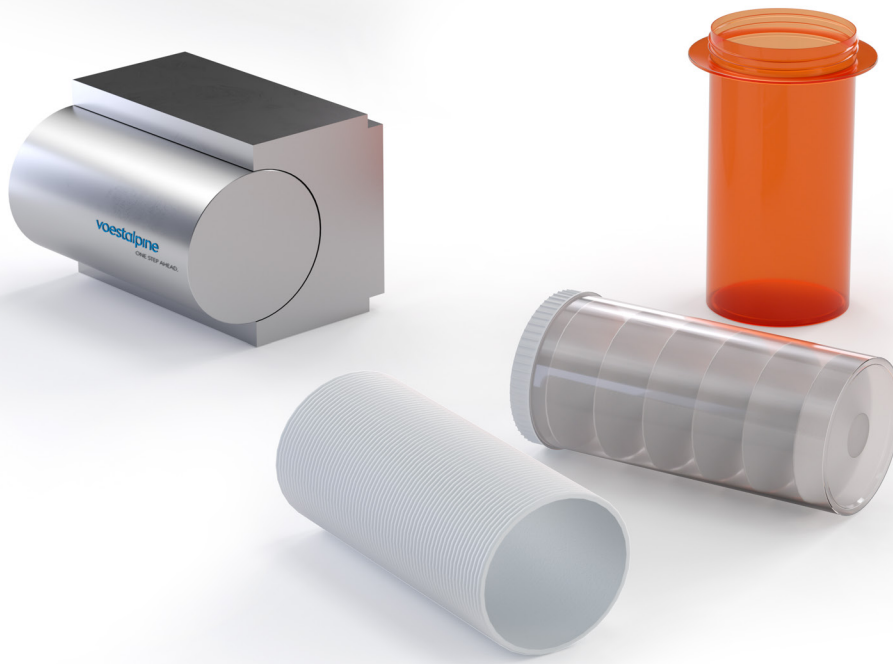
High corrosion resistance

High wear resistance typically 49-53 HRC

High ductility (safety against cracks)

Advanced polishability

Good machinability

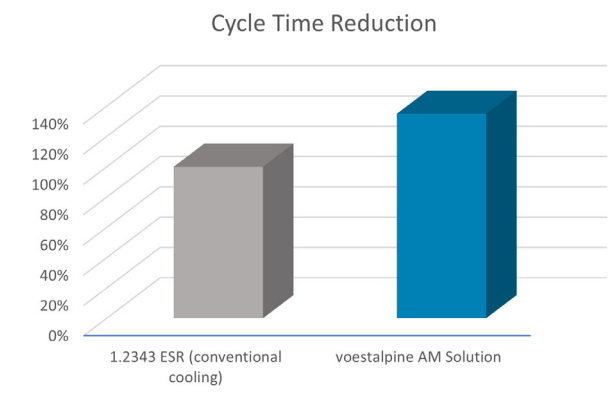


OUR MATERIALS

C	Si	Mn	Cr	Ni	Mo	Al
0.03	0.30	0.30	12.00	9.20	1.40	1.60

C	Cr	Ni	Mo	Al	Ti
< 0.02	12.20	10.00	1.00	0.60	1.00

INDUSTRIAL PERFORMANCE COMPARISON



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voestalpine

ONE STEP AHEAD.