



PLASTICS

voestalpine INSERTS FOR BOTTLE CAPS designed for pure performance

Inserts for bottle caps are used in plastic injection molding, where they provide an excellent cooling system and high wear resistance to increase productivity.

YOUR ADDED VALUE

Our inserts for bottle caps are produced using additive manufacturing and **premium materials by BÖHLER/ Uddeholm**. The bottle cap inserts have optimized conformal cooling solutions which enables our customers to run a stable and highly efficient production.

Our ready to use solution offers higher wear resistance and lifetime compared to Copper Beryllium and standard used AM tool steel 1.2709, which leads to lower costs per part. The product additionally removes all of the inserts toxicity by replacing Copper Beryllium with premium steel.

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

INDUSTRIAL PERFORMANCE COMPARISON

- » Higher productivity through lower cycle time
- » Improved machine utilization rate
- » Significant maintenance savings

Main Properties

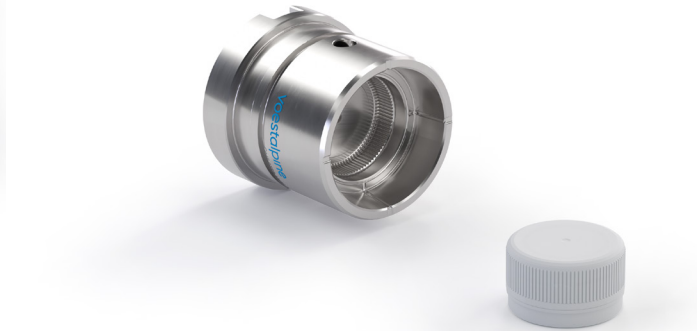
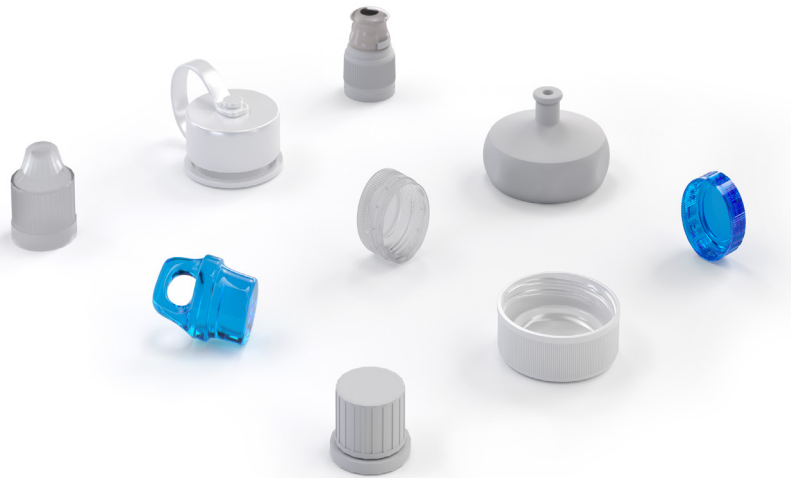
High corrosion resistance

High wear resistance typically 49-53 HRC

High ductility (safety against cracks)

Advanced polishability

Good machinability

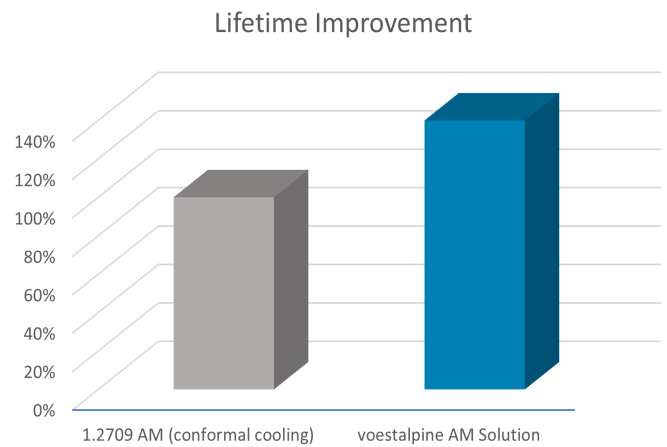


OUR MATERIALS

| 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.