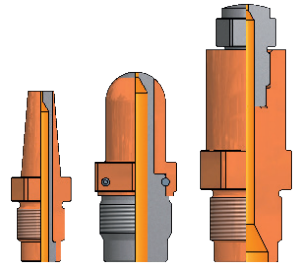


high heat conductivity and mechanical stability

OFS-thermal conductive nozzle

The nozzle with a high heat conductivity and mechanical stability. Optimal temperature control without heater.



APPLICATION FIELDS:

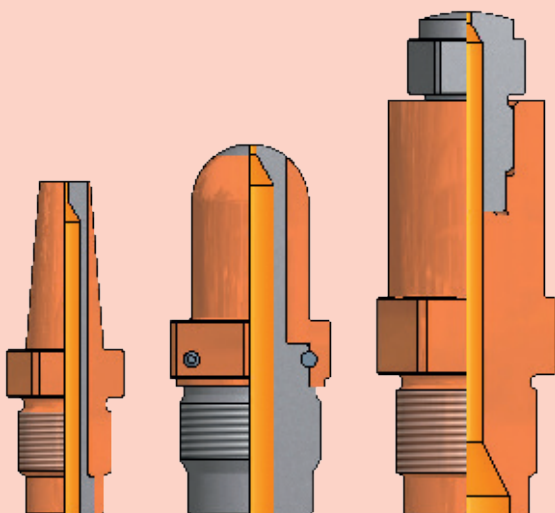
A thermal homogenous melt is the premise for a solid process and quality plastic parts. You can ensure that with the correct nozzle with the suitable heater. At some applications it could be difficult or impossible to provide that. Maybe because of less space in the mould or overmolding and damaging the heater. Therefore, the **OFS**-thermal conductive nozzle could be the suitable solution.

The **OFS**-thermal conductive nozzles ensure an optimal temperature control without any heater. The thermal homogenous is ensured by a high thermal conductive material – the Ampcoloy (CuBe alloy). That material allows an extended length of the nozzle without an additional heater. Beside the heat conductivity, that material shows a high mechanical strength. At corrosive and abrasive plastic materials, the nozzles are

faced with a hardened steel core in the flow canal and at the contact surfaces. Another interesting application of that type of nozzle is the thermal shut-off function. Due a conical outlet and the thermal conductivity of the Ampcoloy, it is possible to prevent melt delivery or stringing after holding pressure.

YOUR BENEFIT:

- ▶ no heater required
- ▶ for deep and thin applications
- ▶ no production breakdown through damaged heaters
- ▶ longer machine running time
- ▶ optimum temperature
- ▶ strong design
- ▶ less maintenance costs
- ▶ short amortization



| material | thermal conductivity | tensile strenght | hardness |
|-------------------------|----------------------|-------------------|---------------------------|
| A 83 ¹ | 130 W/mk | 1.200-1.300 N/mm2 | 320-370 HB |
| A 95 ¹ | 250 W/mK | 720-820 N/mm2 | 230-260 HB |
| tool steel ² | appr. 20 W/mK | appr. 1.200 N/mm2 | appr. 360 HB (unhardened) |

¹ used thermal conductive matrial

² for sample tool steel