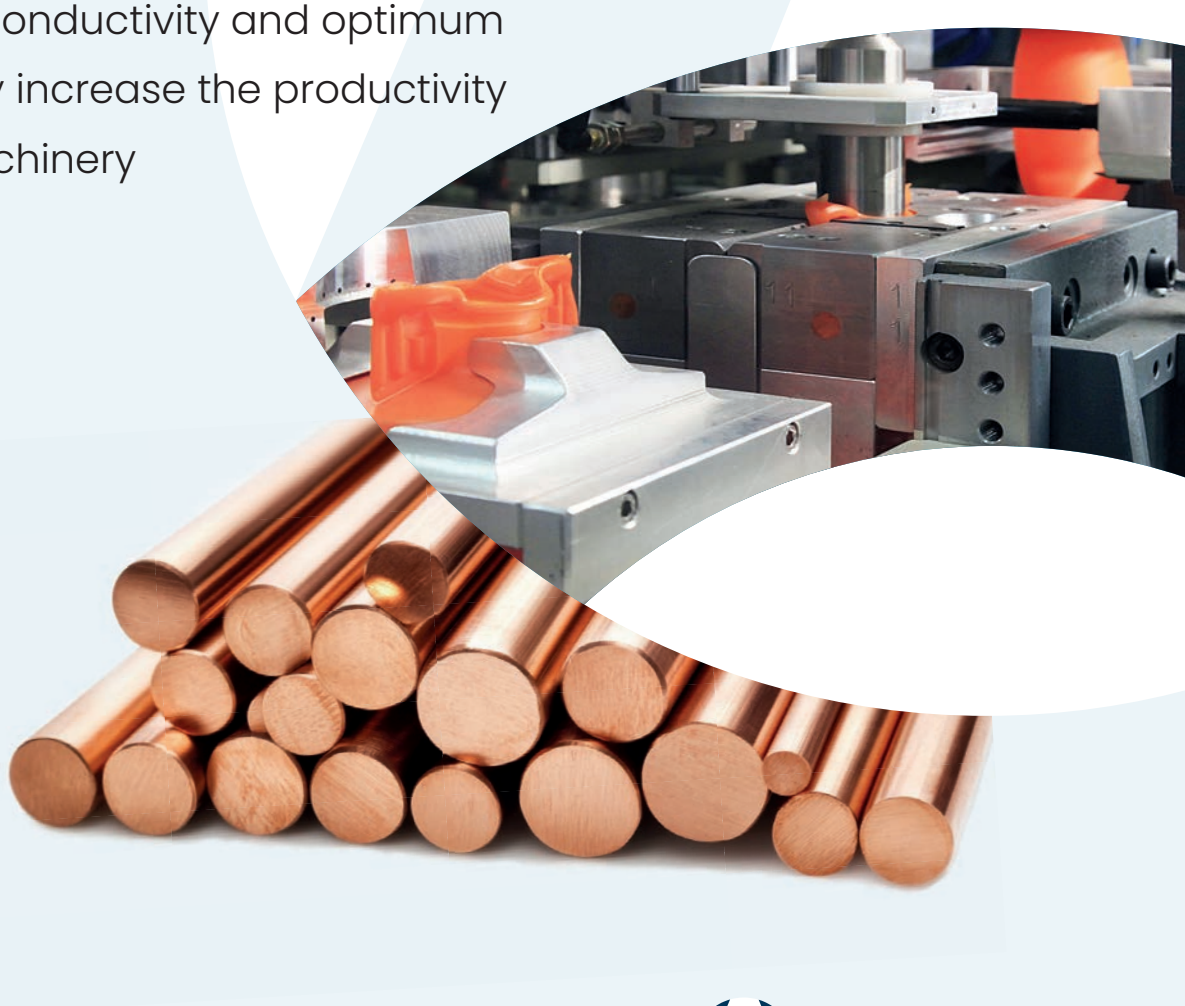
INDUSTRIES

# Materials and components for plastics technology and mold making

High thermal conductivity and optimum surface quality increase the productivity of plastics machinery



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### Your advantages

- Very high thermal conductivity accelerates cooling or tempering control
- Uniform heat distribution in the mold ensures process stability
- High strength and temperature resistance for long service life
- Low surface roughness due to good polishability
- Excellent sliding and emergency running features of the aluminumbronze

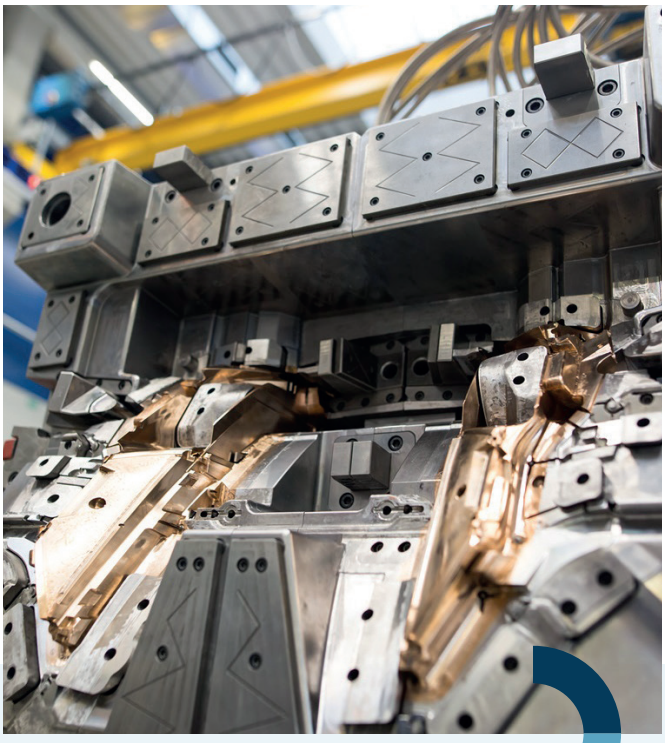


# Copper Alloys – strong in heat conduction, strong in use



# Higher productivity for your plastics machinery

ALBROMET offers high-strength copper alloys with excellent thermal conductivity and high wear resistance, specifically for tool and mold making in plastics technology. The excellent polishability and very low adhesion tendency increase process stability. The even heat distribution in the tool ensures shorter cycle times and significantly improves the surface of the plastic parts.



## Examples of components in plastic engineering and mold making

- Inserts for plastic molds
- Mold cores and plates
- Guides and guide bushings
- Gear wheels and worm gears
- Sliding plates
- Dies and ejectors

## Compliant with standards, durable, beryllium-free

The ALBROMET product range includes both beryllium-free copper alloys with exceptionally high strength values and high-strength CuBe alloys. The highly wear-resistant aluminum bronzes can also be used to manufacture low-friction and durable sliding elements such as plates, bushings, and guide rails for plastics machines.
All ALBROMET alloys are RoHS and REACH compliant.

## Materials for plastics technology: ALBROMET-A200, -A220Ni, -W130, -W164, -W200, -W240

| Alloy | Thermal conductivity in W/m*K (at 20°C) | Softening temperature in °C | Brinell hardness (HBW 10/3000) | Tensile strength $R_m$ MPa | Beryllium content |
|---|---|---|---|---|---|
| **ALBROMET-A200** | 60 | <300 | 180 - 210 | 630 - 750 | No |
| **ALBROMET-A220Ni** | 45 | < 300 | 190 -230 | 700 - 900 | No |
| **ALBROMET-W130** | ~ 130 | ~ 300 | 340 - 390 | 1100 - 1300 | Yes |
| **ALBROMET-W164** | ~ 164 | ~ 450 | 260-295 | 800-900 | No |
| **ALBROMET-W200** | ~ 200 | ~ 480 | 190 - 220 | 650 - 850 | No |
| **ALBROMET-W240** | ~ 240 | ~ 480 | 220-260 | 650 - 900 | Yes |

forged version



## ALBROMET Service

- 24-hour sawing center
- Precision cuts
- Extensive material warehouse
- Individual consultation
- Custom-made finished parts
- Product and development work

Since 1994, ALBROMET has specialized in the distribution of precision-cut blanks and finished parts made of aluminum bronze and low-alloy copper alloys, as well as in the design and manufacture of tube bending tools.

Take advantage of our wealth of experience and let us advise you personally!

## Get in touch with us!

We will advise you competently and personally.

**Tel.: +49 8171 63 998-0**
**E-Mail: info@albromet.de**

ALBROMET GmbH
Daimlerweg 5
82538 Geretsried, Germany