

MoldMax HH®

Due to special hot forming processes combined with a coordinated heat treatment cycle MoldMax HH reaches unrivaled properties. Thus, this alloy stands out with hardness and strength properties that are comparable to tool steels, by what a significant wear resistance is generated that is superior to standard high conductivity copper alloys. Beside of this the thermal conductivity of MoldMax HH is five to six times higher compared to standard tool steel grades.

MoldMax HH was designed for special applications in the plastic injection industry and is mainly used for cores and cavities as well as blow mold pinch-offs. The alloy resists galling against other mold alloys, including itself.

CHEMICAL COMPOSITION (weight-- %)

Alloy	Beryllium	Cobalt	Copper
MoldMax HH	1,6 – 2,0	0,2 – 0,3	Balance

PHYSICAL PROPERTIES

E-Modulus	Melting Point (Solidus)	Density	Thermal Expansion	Thermal Conductivity	Heat Capacity (100 °C)
131 GPa	870 °C	8,36 g/cm ³	17,5 x 10 ⁻⁶ /°C	130 W/mK	0,44 J/gK

TYPICAL MECHANICAL PROPERTIES*

0.2% Offset Yield Strength (nominal)	Ultimate Tensile Strength	Fatigue Strength 107 Cycles (R = -1)	Elongation	Impact Strength	Härte
1000 MPa	1175 MPa	>310 MPa	5 %	5 J	40 HRC

* Properties may vary by shape and thickness

AVAILABLE DIMENSIONS

MoldMax HH is available in plate condition with different thicknesses ex stock in Appenweier (GER).

RELATED INFORMATION

Further technical information on our MoldMax® Products can be found on our webpage www.edro.com or by calling +49 7805 915790. For pricing and availability information, please feel free to contact us.

The safety data sheet for handling Be-containing materials is available under <https://edro-gmbh.de/index.php/downloads.html>.