

# brealloy MK

Solderable CoCr based alloy for crown and bridge technology. The low hardness permits easy processing. It is therefore ideal for milling. brealloy MK is free from nickel, beryllium and gallium.



**brealloy MK**  
 50 g  
 Order No. 500 MK 05 0  
 200 g  
 Order No. 500 MK20 0  
 500 g  
 Order No. 500 MK50 0  
 1000 g  
 Order No. 500 MK00 0

Composition (in % of mass)		Physical properties (guide values)	
cobalt	65	density (g/cm <sup>3</sup> )	8.4
chrome	20	Vickers hardness (HV 10)	265
molybdenum	6.5	solidus point (°C)	1280
tungsten	6.5	liquidus point (°C)	1350
silicon	0.8	casting temperature (°C)	1420
manganese	0.8	0.2% yield point	480
iron	<0.5	tensile strength (N/mm <sup>2</sup> )	790
carbon	<0.1	E-module (mPa)	190,000
		Elongation at break (%)	10
		Coefficient of expansion (WAK 20-600°C)	14.8 µm/mK



1 The low hardness facilitates milling, shaping and polishing.



2 Ideally suited for longer bridges.



3 Even inlays with fine spring tips can be easily produced.



4 The low hardness presents ideal conditions for milling and is thus highly suitable for all types of attachments.

# brealloy MO

An alloy designed to meet the requirements of the production of brace and attachment model castings and for single shot casting technology. Easy shaping reduces milling material use. brealloy is nickel-free.



**brealloy MO**  
 100 g  
 Order No. 500 M010 0  
 500 g  
 Order No.500 M050 0  
 1000 g  
 Order No. 500 M00 0

Composition (in % of mass)		Physical properties (guide values)	
cobalt	62.2	density (g/cm <sup>3</sup> )	8.3
chrome	30	Vickers hardness (HV 10)	380
molybdenum	5.5	solidus point (°C)	1260
silicon	1.0	liquidus point (°C)	1350
manganese	0.6	casting temperature (°C)	1420
carbon	0.6	0.2% yield point (mPa)	640
others	0.1	tensile strength (N/mm <sup>2</sup> )	700
		E-module (mPa)	210,000
		elongation at break (%)	<6



1 The high e-module permits production of delicate brace prostheses.



2 Easy shaping of brealloy MO facilitates the production of attachments.



3 Individual bars can be produced to fit perfectly.



#### Accessories

**brealloy solder, 7 g**  
 Order No. 500 0001 0

**brealloy flux, 8 g**  
 Order No. 500 0001 1