

# METAL TRADE COMAX, a.s.

## ALLOY PRODUCT RANGE MANUFACTURED ACCORDING TO EUROPEAN STANDARDS

Metallurgical plant  
(effective from 01.06.2016)

Deliveries of foundry alloys and master alloys are governed by the applicable European and Czech technical standards.

### ASSORTMENT:

#### ALUMINIUM ALLOY

Aluminium alloys are manufactured according to DIN EN 1676 aluminium and aluminium alloys - aluminium alloy ingots for remelting

Aluminium alloys are used for - pressure casting

- casting into sand
- casting into metal or other moulds

The following group of foundry aluminium alloys are manufactured:

<b>AlCu4MgTi</b>	EN AB-21000	<b>AlSi11</b>	EN AB-44000	<b>AlSi9Cu3(Fe)</b>	EN AB-46000	<b>AlMg3</b>	EN AB-51100
<b>AlCu4Ti</b>	EN AB-21100	<b>AlSi12(b)</b>	EN AB-44100	<b>AlSi11Cu2(Fe)</b>	EN AB-46100	<b>AlMg9</b>	EN AB-51200
<b>AlCu4MnMg</b>	EN AB-21200	<b>AlSi12(a)</b>	EN AB-44200	<b>AlSi8Cu3</b>	EN AB-46200	<b>AlMg5</b>	EN AB-51300
<b>AlSi2MgTi</b>	EN AB-41000	<b>AlSi12(Fe)(a)</b>	EN AB-44300	<b>AlSi7Cu3Mg</b>	EN AB-46300	<b>AlMg5Si</b>	EN AB-51400
<b>AlSi7Mg</b>	EN AB-42000	<b>AlSi9</b>	EN AB-44400	<b>AlSi9Cu1Mg</b>	EN AB-46400	<b>AlMg5Si2Mn</b>	EN AB-51500
<b>AlSi7Mg0,3</b>	EN AB-42100	<b>AlSi12(Fe)(b)</b>	EN AB-44500	<b>AlSi9Cu3(Fe)(Zn)</b>	EN AB-46500	<b>AlZn10Si8Mg</b>	EN AB-71100
<b>AlSi7Mg0,6</b>	EN AB-42200	<b>AlSi6Cu4</b>	EN AB-45000	<b>AlSi7Cu2</b>	EN AB-46600		
<b>AlSi10Mg(a)</b>	EN AB-43000	<b>AlSi5Cu3Mg</b>	EN AB-45100	<b>AlSi12(Cu)</b>	EN AB-47000		
<b>AlSi10Mg(b)</b>	EN AB-43100	<b>AlSi5Cu1Mg</b>	EN AB-45300	<b>AlSi12Cu1(Fe)</b>	EN AB-47100		
<b>AlSi10Mg(Cu)</b>	EN AB-43200	<b>AlSi5Cu3Mg</b>	EN AB-45400	<b>AlSi12CuNiMg</b>	EN AB-48000		
<b>AlSi9Mg</b>	EN AB-43300	<b>AlSi7Cu0,5Mg</b>	EN AB-45500	<b>AlSi17Cu4Mg</b>	EN AB-48100		
<b>AlSi10Mg(Fe)</b>	EN AB-43400						
<b>AlSi10MnMg(b)</b>	EN AB-43500						

We offer the option to modify the chemical composition according to the requirements of the client.

#### MASTER ALLOYS

Master alloys are produced according to ČSN EN 575 Aluminium and aluminium alloys. Master alloys are produced by melting metals in electric induction furnaces.

Master alloys are used to modify the chemical composition, inoculation and modification of the alloys in foundries.

The basic assortment is comprised of the following master alloys:

<b>AlTi5-10</b>	EN AM – 92201	<b>AlMn10-20</b>	EN AM-92500
<b>AlCr5-15</b>	EN AM – 92401	<b>AlMg1-30</b>	EN AM-91200
<b>AlCu20-50</b>	EN AM – 92900	<b>AlNi20-25</b>	EN AM-92802
<b>AlFe10-25</b>	EN AM – 92601	<b>AlSi20-50</b>	EN-AM-91400
<b>AlSr10</b>	EN -93804	<b>AlZr5-10</b>	EN-AM 94002

We offer the option to modify the chemical composition according to the requirements of the client.



## COPPER ALLOYS

Copper alloys are produced according to ČSN EN 1982 Copper and copper alloys - Ingots and cast pieces

Copper and master alloys are produced by melting metals in a gas pot furnace.

Produced are these groups of Cu alloys:

<b>Cu-Zn</b>	brass
<b>Cu-Sn</b>	bronze
<b>Cu-Pb-Zn</b>	red bronze
<b>Cu-Sn-Pb</b>	lead bronze
<b>Cu-Al</b>	aluminium bronze

We offer the option to modify the chemical composition according to the requirements of the client.

## COPPER MASTER ALLOY

Copper master alloys are produced according to ČSN EN 1982 Copper and copper alloys - Master alloys

The basic assortment is comprised of the following aluminium addition alloys:

<b>CuNi20-30</b>	EN 1981 (CM390H)
<b>CuFe5-20</b>	EN 1981 (CM204E)
<b>CuMn30-50</b>	EN 1981 (CM209E)
<b>CuSi10-15</b>	EN 1981-1
<b>CuP10</b>	EN 1981 (CM215E)

We offer the option to modify the chemical composition according to the requirements of the client.

## CHECKING:

The quality, moisture, chemical compositions and radioactivity are checked on the input raw materials. The chemical composition of alloys and master alloys are checked using Spectrolab and Q8 Magellan spectrometers. The options for determining the elements for alloys and master alloys are as follows:

On the basis of aluminium – Al, Si, Cu, Mn, Mg, Fe, Sn, Pb, Zn, Ni, Cr, Ti, Ca, Bi, Sb, P, Sr, Zr, Cd, Na, B, Co, Be, Li

On the basis of copper – Cu, Zn, Sn, Pb, Si, Fe, Sb, Mn, Ni, P, As, Al, Bi

According to ČSN EN 10204, the inspection certificate 3.1 is issued.

## PACKING:

Packing is on the basis of the requirements of the client according to the packing regulations.

## LIQUID METAL

Aluminum alloys for die casting are delivered in liquid form at the desired temperature.

Weight of liquid metal in the ladle is 5 till 6 tons. Delivery up to 3 pans - max. 15 tons.

Registration into the Commercial Register maintained by the Municipal Court in Prague, Part B, Insert 11701

[www.mtcomax.cz](http://www.mtcomax.cz)

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