



lebronze alloys

Lead-free brass

Lead-free brass and copper alloy specialist

Lebronze alloys is actively involved in proposing ethical and ecologically sustainable solutions.

Aware of the economic and technological challenges presented by migration to a world of lead-free brass, Lebronze alloys has developed various solutions to achieve this goal and is now producing:

- More than 4000T per year of lead-free brass
- More than 4000T per year of other lead-free copper alloys.

Lebronze alloys is a member of the study group - Lead-free alloy machining - in collaboration with RWTH of Aachen and IGF, Federal Ministry of Economics.

The Lebronze alloys offer covers a range of materials with lead content ranging from a maximum 1000 PPM (0.1%) to less than 60 PPM (0.006%).

For electrical and mechanical applications or fluid transport, Lebronze alloys implements the most efficient and economical solution with you whilst considering all your technical constraints.



Lead is known for its toxicity, even at low concentrations. Lead and its compounds, whether swallowed or inhaled, are poisonous to animals and humans alike. Lead is also a neurotoxin that accumulates over time in tissues and bones, damaging the nervous system and potentially causing brain damage. The elimination of lead from commonly used materials is therefore an environmental necessity.

An ecological, sustainable and economical solution



For its lead-free brass, Lebronze alloys offers 3 demanding standards:

- Pb max 1000 PPM
- Pb max 90 PPM
- Pb max 60 PPM

Lebronze alloys lead free brasses do not contain any of the below:

- Arsenic
- Bismuth
- Tellurium
- or Silicium

These lead free brasses have improved recycling capacity due to the absence of Bismuth, Tellurium and Silicon.



Lebronze alloys makes your processes easier:

- All alloys are fully recyclable, the chips can be mixed with leaded brass and other alloys.

From the raw product to the finished component



A wide range of available compositions

- All standard brass from CuZn5 to CuZn42
- A specific range of 4 alloys dedicated to machining

Semi-products dedicated to machining	EnviB10	EnviB58	EnviB1	EnviB158
DIN	CuZn40	CuZn42	CuZn40	CuZn42
ASTM	B 36M	-	B 36M	-
EN	CW509 L	CW510 L	CW509 L	CW510 L
Excellent electrical conductivity	✓	✓	✓	✓
Cold deformation	✓	-	-	-
Hot deformation	✓	✓	✓	✓
Lead content	< 1000 PPM	< 1000 PPM	< 90 PPM	< 90 PPM



Many shapes available

Semi products		Minimum	Maximum
Wires	Diameter	0,1 mm	17mm
Bars	Diameter	1 mm	up to 330 mm
Hollow bars	Outside diameter	OD 50 mm	OD 300 mm
Profiles	Cross-section	0,5 mm ²	80.000 mm ²
Strips	Thickness	0,05 mm	3,5 mm
Flat products	Thickness	0,05 mm	70 mm
Preformed raw materials	Weight	-	500 kg

Finished products	Minimum weight	Maximum weight
Moulded	50 g	Several tons
Forged	5 g	1 ton
Die stamped	< 5g	Please contact us
Cold formed	10 g	100g

Lebronze alloys was born from the integration of companies specialized in the production of copper alloys, copper, nickel alloys, aluminium, special steel, stainless steel, titanium and superalloys.

Thanks to its multidisciplinary know-how, the Group provides innovative solutions to all major industries such as Aeronautics, Oil & Gas, Energy and Railways, but is also present in sectors that manufacture personal equipment. Our 16 production sites and 1,200 employees master a unique range of metal processing technologies: continuous and semi-continuous casting, sand casting, shell casting (manual, mechanized, robotic), centrifugal casting, extrusion, circular rolling, hot and cold rolling, drawing, free forging, forging, die stamping, stamping, heat treatment, cold stamping, machining, non-destructive tests, etc.

Offering a solution that is suited and optimized for the needs of each sector is our Group's commitment.

Do you want to know more, talk about a project with us or make a request?

Contact

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