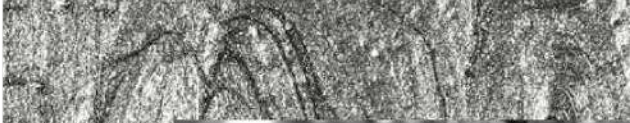


Fashion line

Bronzes, Brasses and Alpaca for
investment casting costume jewellery,
fashion accessories and eyewear





The Group

For over 40 years, we have been transforming **metals into alloys, powders and plating solutions of excellence** for the manufacture of **jewellery and fashion accessories**, guaranteeing our customers reliability, safety and high performance.



ISO
9001



ISO
14001



ISO
45001



ISO
14021



ISO
14064-1



Responsible sourcing

All the **precious metals** used in Legor Group S.p.A. (Gold, Platinum, Palladium, Rhodium and Silver) are **100% recycled** and come entirely from a controlled supply chain certified in its Chain of Custody by the Responsible Jewellery Council. In addition, Legor is now able to guarantee that certain **non-precious metals** (Silicon, Tin, Indium, Cobalt, Gallium, Germanium and Copper) come **100% from recycled sources** for products pertaining to the UNI EN ISO 14021:2021 certification obtained in October 2022.



RESPONSIBLE
JEWELLERY
COUNCIL

CERTIFIED MEMBER
0000 4831

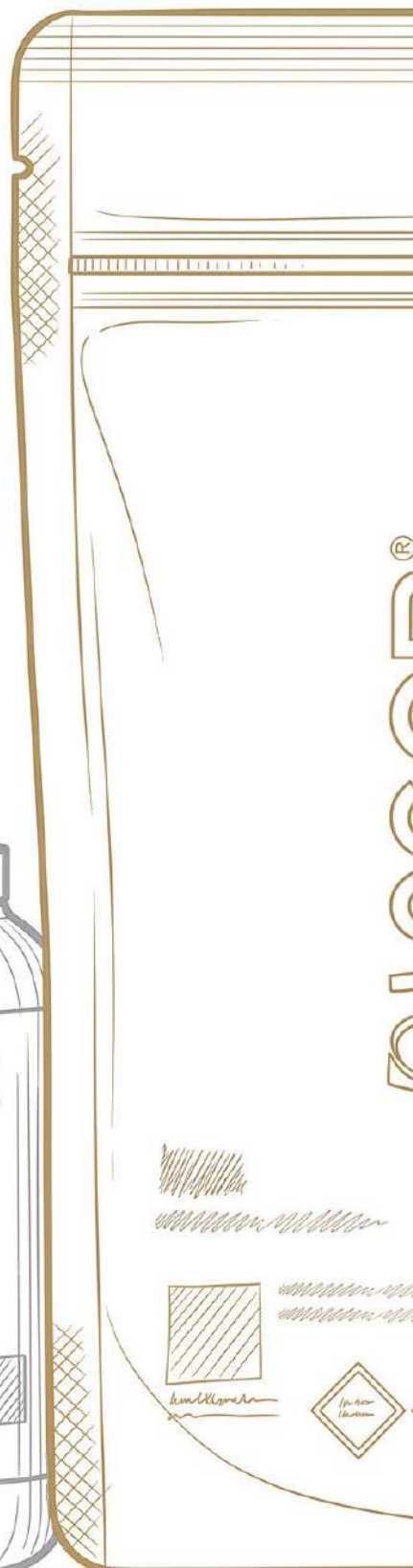


CHAIN
OF
CUSTODY

CERTIFIED NUMBER
C00003 5299



*Only selected non-precious metals contained in UNI EN ISO 14021:2021 certified products





Fashion
line

Fashion line

Copper-based alloys for investment casting of fashion jewelry, fashion accessories, and eyewear

Legor offers a comprehensive **range of copper-based alloys—including brass, bronze, and nickel silver**—specifically developed for the **investment casting of fashion jewelry, fashion accessories, and eyewear**. These alloys provide extensive color versatility, achieved through the combination of **carefully selected metals** and our decades of expertise in metallurgy.

This synergy results in reliable, **consistently high-quality alloys with an excellent balance of performance and cost**, providing fashion jewelry and accessory manufacturers with a versatile raw material for bringing their creations to life.





Main features



High purity

The alloys are produced from selected raw materials and processed under controlled, oxygen-free conditions



Sustainable

Some of them can be produced using materials sourced from recycling and certified by Bureau Veritas



Absence of hazardous elements

They are developed without the use of hazardous elements, such as lead and cadmium, and guarantee purity standards higher than those required by international regulations



Compliant with regulations

Each batch can be accompanied by technical specifications and certificates of conformity, ensuring product traceability and quality



Convenience

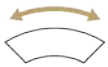
Available formats are designed to facilitate handling and use in production

Advantages



Castability suited to your process

Fashion Line alloys are designed to ensure high performance in investment casting processes, thanks to excellent fluidity and adaptability to different operating conditions



Process stability

The stability of the formulation ensures greater process repeatability and more reliable control of the finished product



Reduction of casting defects

The use of optimized alloys helps reduce the main casting defects, such as porosity, misrun, and cracking



Hardness tailored to your needs

The available range allows you to select the hardness level best suited to your specific application requirements



Cost savings

Better process quality and reduced scrap translate into higher overall efficiency and lower operating costs

Brasses



Brasses

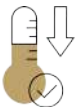
Copper-zinc alloys ranging **from light yellow to pinkish yellow** depending on zinc content, offering an excellent performance-to-cost ratio. Low melting point and, in some formulations, high as-cast hardness for greater wear resistance.



Cu-Zn alloys characterized by wide **color modulation capability**, from light yellow to pinkish yellow, depending on zinc content



They offer an **excellent performance-to-cost ratio**, making them among the most widely used by manufacturers in the fashion/costume jewelry sector



The **low melting point** enables less demanding and more efficient processes



Some formulations exhibit high as-cast hardness, contributing to the **wear resistance of the finished product**

Brasses

Shade	Code	Main formulation				Applications	Hardness AC/AH
		Zn%	Sn%	Deox	G.R.		
Light yellow	OTT67-33M	33	0	Medium	Low	Good surface quality and fluidity in open-system investment casting. Slightly lighter color compared to OTT77-23M.	80/80
	OTT77-23M * ECO-OTT77-23M	23	0	Medium	Low	Good surface quality and fluidity in open-system investment casting.	70/70
	OTTCM * ECO-OTTCM	23	0	High	Low	Medium-high as-cast hardness. Excellent for investment casting with stones in closed systems.	90/90
	OTT13SC	13	0	Very high	Medium	High yellow color brightness, excellent deoxidation and hardness. Designed for investment casting processes, suitable for casting both with and without stones. Ensures reliable and repeatable results.	120/120
	OTTGR * ECO-OTTGR	13	0	Very high	Medium	High as-cast hardness. Low process temperatures, excellent for investment casting with stones.	130/150
	ECO-D-BRASS01 (available only in GREEN version)	6.7	0	Very high	Medium	Ideal for investment casting, especially for the fashion and components sector, durable with excellent mechanical properties. Made from over 97% recycled metals.	135/135
Deep yellow	X-BRASS01	22	0	Very high	High	Alloy with the highest as-cast hardness among our brasses. Excellent surface quality even on large surfaces.	160/160
	BR10 * ECO-BR10	4	0	Very high	Low	Low fume emissions from zinc evaporation. High as-cast hardness. Highest deoxidation level in its range.	125/125

* Also available in ECO/GREEN version



Bronzes



Bronzes

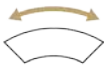
Copper-tin alloys available in deep yellow, pink, and red tones, **zinc-free** and therefore free from the risk of fume emissions during casting. **Wide hardness range**, from softer formulations to high-performance heat-treatable bronzes, also suitable for decorative oxidation.



Copper-tin based alloys, available in various tones: **deep yellow, pink, red**



The absence of zinc eliminates the risk of fume emissions during the casting process



The range covers a **wide hardness range**, from softer formulations to high-performance heat-treatable bronzes



Also suitable for **decorative oxidation treatments**

Bronzes

Shade	Code	Main formulation				Applications	Hardness AC/AH
		Zn%	Sn%	Deox	G.R.		
Deep yellow	BR97HC	0	13	Medium	Low	Developed specifically for the eyewear industry. Heat-treatable bronze with high as-cast hardness, capable of reaching higher hardness after heat treatment. Nickel-free and beryllium-free.	170/220
Rose yellow	BR12	0	12	Minimum	Low	High brightness. Zero evaporation loss. Minimal residue in the crucible after investment casting.	100/115
Pink	BR10S * ECO-BR10S	0	10	Low	Low	High fluidity. Excellent for investment casting with stones.	110/110
Red	BR6S	0	6	Medium	Minimum	High fluidity. Minimal residue in the crucible after investment casting. Excellent surface quality.	100/100
	BR3	0	3	Minimum	Minimum	Traditional red bronze. Zero fumes and evaporation loss.	80/80

** Also available in ECO/GREEN version*





White Bronzes and Alpaca



White Bronzes and Alpaca

Non-precious white alloys based on manganese or nickel, the most effective solution for whitening an alloy. Nickel-based alpaca alloys remain the classic choice — **fluid, hard, and reusable** — while a surface coating is recommended for both bases, especially in jewelry.



Originally developed as non-precious white metals, these alloys are manganese-based or nickel-based. These metals represent the **most effective solution for whitening an alloy**



Nickel-based alpaca alloys are the classic solution for a non-precious white alloy: **fluid, with good hardness, and reusable**



For both manganese-based and nickel-based formulations, the application of a **surface coating** is recommended, particularly for items intended for jewelry applications. Nickel-based formulations, when used without an appropriate protective coating, should be considered non-compliant with European standards for nickel release.

White Bronzes and Alpaca

Shade	Code	Main formulation					Applications	Hardness AC/AH
		Zn%	Sn%	Ni%	Deox	G.R.		
Off-white	ALPCAST	37	0	9	Medium	Low	Low processing temperatures. High fluidity. Excellent quality/price ratio.	115/120
	ALPCAST3	15	6	9	Medium	High	High surface quality. Refined composition. Heat-treatable.	125/150
	S120-12	2	10	7.5	Medium	Low	Designed for the eyewear industry, it is a valid substitute for copper-beryllium based alloys. Heat-treatable and easy to use.	150/290
Standard white	ALPCAST4	21	0	15	Medium	Low	Whiter than ALPCAST, high as-cast hardness.	155/155
Premium white	BRZ-WHT-01	0	9	0	High	Low	Nickel-free, cost-effective. Suitable for closed-system investment casting. Contains 16% Mn.	110/110







**CONTACT US
FOR MORE INFORMATION**