

bedra- intelligent wires

As a top international manufacturer of high-quality precision wires of non-ferrous metals, we distinguish ourselves in the market through high quality and smart services. Absolute customer focus. This is a long tradition for us - ever since the company was founded in 1889. Our ability to innovate, along with our well-known reliability, set us apart. These two strengths have made bedra a leader in quality and a leader in the market. Year after year, our plants produce more than 30 million kilometers of precision wire - in over 100 alloy versions. Our business units are:

bedraEDM

bedraWELDING

bedraELAS

We are known for customer-specific solutions across all service areas. Our highly qualified employees play a major role in this. We rely exclusively on high-quality metals for manufacturing our products. This makes our innovative high-tech precision wires absolutely alloy-pure.

bedraWELDING

For more than 130 years we have been synonymous with innovative high-tech precision wires. From our plants in Heuchelheim and Herborn we serve the needs of our customers all over the world. We have developed the bercoweld® series for brazing and welding copper and copper alloys. Our complex range of wire electrodes for welding and brazing provides the right product for every application.

No matter whether you prefer MIG/MAG brazing or welding, TIG welding, laser and plasma brazing, or wire flame spraying: The bercoweld® range is as diverse as your applications. This is one reason why renowned companies from the automotive industry, plant construction, and the off-shore and onshore sectors rely on bercoweld as a fundamental component of an innovative joining technology.

— Wire solutions for brazing and welding —



bercoweld® welding and brazing wire offers significant advantages. The automotive industry has impressively demonstrated how galvanized sheets can be joined with copper wire without the need for costly reworking. Here, so-called tailored blanks, tailor-made components made from thin sheets of different qualities are laser brazed and hard or high-temperature brazed with bercoweld®. Subsequent treatment and galvanizing of the joint seam are no longer necessary, but the corrosion protection remains intact. This allows enormous cost and energy savings.

The advantages of brazing with copper alloys at a glance:

- Optimal gap bridging
- Low joining temperatures
- Low energy consumption
- Low heat penetration reduces distortion of base material
- No galvanizing of the joint required

In terms of numbers, working with copper brazing wires can result in savings of up to 30 percent in manufacturing costs compared to conventional steel wires. We can look similarly at energy demand: The savings potential here is up to 20 percent.

— Our applications —



Automotive



Construction



Railway track



Industry



Agricultural machinery



Shipbuilding

Our highlights



bercoweld® A8 (AlBz8)

- Standard alloy for galvanized sheets and ferritic steels
- Solenoid valves, build-up and join welding on aluminum bronzes
- Suitable for hard brazing and welding of galvanized steels.
- Good corrosion and wear resistance.

bercoweld® S2 (COMAS)

- Reduced Si content for brazing galvanized sheet metal
- Good flowing weld pool, no pore or splatter formation
- Suitable for welding Cu and Cu alloys as well as unalloyed and low-alloyed steels and cast iron.

bercoweld® S3 (CuSi3Mn)

- Welding and brazing wire for galvanized body panels in the automotive industry
- Coatings on low-alloy steels, solenoid valves, switch cabinets

Product program

Low-alloy copper alloys	bercoweld® K3 (SF-Cu)	Aluminum bronzes	bercoweld® A300 (MAXAL300)	
	bercoweld® K5 (CSSM)		bercoweld® A35 (AlBz35)	
	bercoweld® K8/9 (CuAg/W/G)		bercoweld® A52 (AlBz5Ni2)	
	bercoweld® S2 (COMAS)		bercoweld® A8 (AlBz8)	
	bercoweld® S3 (CuSi3Mn)		bercoweld® A822 (AlBz8MNF)	
Tin bronzes	bercoweld® B6 (CuSn6P)		bercoweld® A10(AlBz9Fe)	
	bercoweld® B8 (CuSn8P)		bercoweld® A922 (AlBz9Ni)	
	bercoweld® B10 (CuSn10MnSi)		Copper-nickel alloys	bercoweld® N10 (CuNi10Fe)
	bercoweld® B12 (CuSn12P)			bercoweld® N30 (CuNi30Fe)
	bercoweld® BS60 (CuSn6MnSi)		Special	bercoweld® K1/K2/M122

Packaging



bercoweld welding and brazing wires are available in all common designs: Spools (plastic or wire basket), barrels, rods, and rings. Upon request, rods are also available in embossed versions - even in the smallest batch sizes and in special alloys according to customer requirements. With our innovative bedradox you can further increase your productivity. If you opt for bercoweld® from the innovative bedradox, the high filling quantity and continuous wire run-off speed mean that the time-consuming work of changing spools is no longer necessary. So downtimes in production can be enormously reduced. Furthermore, the bedradox is made of recycled material and contributes to the sustainability.

