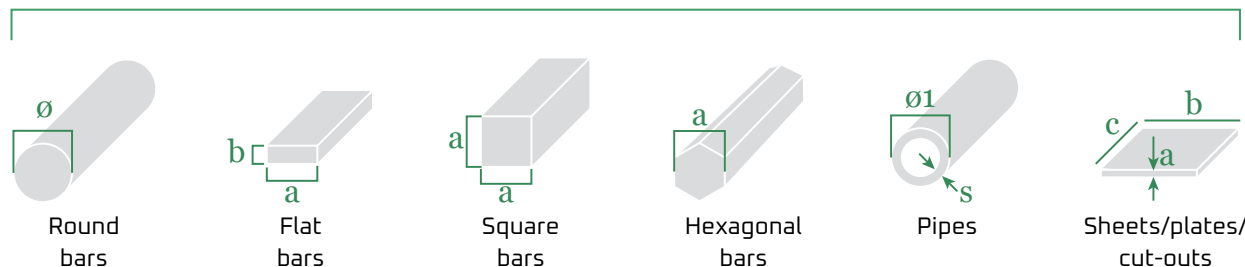


# Bronze

## Phosphor Bronze

Alloys, international standards\*, and examples of use

### Supply program



Production method: drawn, extruded, rolled, cast, forged, continuously cast Gc, centrifugally cast Gz.

Alloy	ČSN/STN	EN	DIN	UNS	BS	Properties	Application:
<b>CuSn8</b>	423018	CW453K	2.1030/SnBz8	C52100	PB104	High strength and corrosion resistance, good sliding properties. Excellent formability, weldability, and solderability with both soft and hard solders. Excellent resistance to industrial, mining, and marine atmospheres, fresh and sea-water, condensation water, gasoline, diesel, and oil.	In engineering, it is used for guiding, sliding, bearing bushings, springs, diaphragms, bolts, couplings, etc. In electrical engineering: connectors, fuses, switches, etc. Suitable for artistic purposes (sculptures, railings, etc.). They are used for more demanding applications than CuSn6.
<b>CuSn8P</b>		CW459K				Excellent mechanical properties, very uniform structure, very high permissible load, high wear resistance, high strength, excellent friction resistance, good strength properties.	Gear shafts, connector parts.
<b>CuSn6</b>	423016	CW452K	CuSn6/2.1020/SnBz6	C51900	PB103	Very good formability. Weldability - excellent in butt welding with electrical resistance, good with other resistance methods, conditional with flame and coated electrode welding. Very good solderability with both soft and hard solders. Very resistant to atmospheric corrosion in industrial and coastal areas.	In engineering, it is used for guiding, sliding, and bearing bushings, springs, diaphragms, bolts, couplings, etc. In electrical engineering: connectors, fuses, switches, etc. Suitable for artistic purposes (sculptures, railings, etc.).
<b>CuSn4Zn4Pb4</b>		CW456K	2.1076	C54400		Satisfactory corrosion resistance, excellent anti-seizing properties, good machinability.	Piston rings, friction pads, and parts, gear shafts, electronic components, connectors.
<b>CuSn4</b>	423013	CW450K	2.1016	C51100	PB 101	CuSn4 provides an excellent combination of strength, outstanding formability, and hardness. It has good electrical conductivity and corrosion resistance. Excellent solderability.	Connectors, contact springs, spring elements, ultra-high-strength spring elements, diaphragms, switch components, and solid contacts.
<b>CuSn5</b>	423115	CW451K		C51000	PB 102	CuSn4 offers an excellent combination of strength, outstanding formability, and hardness. It has good electrical conductivity and corrosion resistance, with excellent soldering properties.	Stamped parts, connectors, contact springs, spring elements, ultra-high-strength spring elements, membranes, switch components, and solid contacts.

\* The listed standards are equivalent but may not be identical and could differ.