

Casting Bronze Alloys

viplus offers casting alloys such as casting brasses, casting bronzes and ingots of copper and copper alloys. All casting alloys are manufactured according to PN, EN, DIN standards or to meet individual requirements specified by the contractor. Cast Bronze Bearings for Heavy-Duty Use Engineered for Extreme Conditions!



High-Performance Cast Bronze Bearings,Cast Bronze Bearings for Every Industry

Cast Bronze Bearing, Self-Lubricating Bronze Bushing Alloys: Casting Bronzes

Key Properties

Corrosion & Abrasion Resistance: Suitable for harsh environments.
High Castability: Enables intricate shapes and fine details during casting. Ease of Machining: Simplifies post-casting processing.
Classification of Casting Bronzes: Casting bronzes are categorized based on their alloying elements and compositions:
Aluminum-Iron Bronze: BA93 (CuAl9Fe3)
Aluminum-Iron-Manganese Bronze: BA1032 (CuAl10Fe3Mn2)
Tin Bronze: B10 (CuSn10)
Tin-Phosphor Bronze: B101 (CuSn10P)
Tin-Lead Bronzes:
B1010 (CuSn10Pb10)
Tin-Zinc-Lead Bronzes:
B555 (CuSn5Zn5Pb5)
B663 (CuSn6ZnPb3)

Applications

Similar to bronzes used in plastic forming, these casting alloys are widely employed in industries requiring durability and reliability:
Chemical: Valves, pumps, and corrosion-resistant fittings.
Electromechanical & Electrical: Bushings, connectors, and conductive components.
Automotive: Bearings, gears, and engine parts.
The inclusion of elements like lead enhances self-lubricating properties, reducing friction in moving parts, while phosphorus improves hardness and wear resistance. This versatility ensures their broad utility across demanding technical applications.

Self-lubricating bronze bushing alloys are multi-component materials composed primarily of copper, with additions such as tin, zinc, aluminum, lead, and phosphorus. These casting bronzes exhibit a distinct grainy microstructure, contributing to their exceptional resistance to corrosion, wear, and abrasion. Additionally, they demonstrate superior castability and machinability, making them ideal for precision components.
Engineered for Extreme Conditions!
Low Friction, High Wear Resistance
Trusted by Industry Leaders
Fast Shipping Worldwide

Precision Cast Bronze Bearings
Maximize Efficiency with Premium Bearings!
Low Friction, High Wear Resistance
Trusted by Industry Leaders
Fast Shipping Worldwide
✓ **Self-Lubricating Options**
✓ **Corrosion-Resistant**
✓ **Made to Last**
Contact Us for Bulk Pricing!

CASTING BRONZE BEARING BUSHING ALLOYS

Custom Bronze Bushing



Casting Alloys

Casting alloys are produced in compliance with:
International and national standards, such as PN, EN, and DIN, which define the chemical composition, mechanical properties, and quality requirements.
Individual customer specifications, which may include custom chemical compositions, mechanical properties, dimensional tolerances, surface finishes, and application-specific performance criteria.

Casting alloys for plain bearings are specifically designed to provide a combination of strength, wear resistance, and low friction properties. Plain bearings, also known as bushings or sleeve bearings, are used to support rotating or sliding motion between two surfaces. The choice of casting alloy for plain bearings depends on the application requirements, such as load capacity, speed, temperature, and environmental conditions. The choice of casting alloy for plain bearings depends on the specific application requirements.

Custom Cast Bronze Bearings: Tailored to Your Needs!

- ✓ Precision Machined
 - ✓ Reliable & Efficient
 - ✓ Fast Turnaround Times
- [Contact Us for a Quote]

CASTING BRASS BUSHINGS MATERIAL

Alloy Type	Grade according to PN-91/H-87026
CuZn34Al2Mn1Fe	MA58
CuZn39Pb2	MO59
CuZn38Pb2	MM47
CuZn16Si3,5	MK80

CASTING BRONZE BEARING BUSHING MATERIAL

Alloy Type	Grade according to PN-91/H-87026
CuSn10	B10
CuSn10P	B101
CuSn10Zn2	B102
CuSn12	B12
CuSn16	B16
CuSn10Pb10	B1010
CuSn5ZnPb5	B555
CuSn5ZnPb	RG5
CuAl10Fe3Mn2	BA 1032
CuAl10Fe4Ni4	BA 1044
CuSi3Zn3Mn1	BK 331

Plain bearing casting alloys are manufactured in accordance with both international standards (such as PN, EN, DIN, ISO, ASTM, etc.) and individual customer requirements. The manufacturing process ensures that the alloys meet specific mechanical, chemical, and performance criteria for their intended applications. High-Quality Materials, Affordable Pricing!

Alloy Type	Standard
Bronze Alloys	Bronze Bushing Material EN 1982, ASTM B584
Upgrade to Cast Bronze Bearings The Ultimate Solution for Industrial Applications! High-Temperature Resistance Customizable Designs Reliable Performance	Cast Bronze Bearings You Can Trust Built for Tough Environments! ✓ Superior Strength & Durability ✓ Wide Range of Applications ✓ Competitive Pricing [Request a Quote Today]