

IBC Copper Alloys

IBC Advanced Alloys Copper Division manufactures and distributes a wide variety of copper alloys as castings and forgings including beryllium copper, chrome copper and aluminum bronze in plate, block, bar, rings. We also develop specialty copper alloy forgings for plastic mold tooling and resistance welding applications.

IBC ADVANCED ALLOYS CORPORATION is a world wide manufacturer and supplier of advanced materials and other intermediate products with a focus on rare metals (beryllium) related alloys as well as non-ferrous alloys for a broad range of industrial applications including nuclear power, oil and gas, defense, electronics and automotive.

Our product offering includes:

- Forged and machined-to-print copper alloys, beryllium copper and aluminum bronze.
- Rounds, tubes, bars, and plates in a wide variety of copper alloys to all standard industry specifications.
- Custom forged rings for Oil and Gas, Aerospace, and Plastic Tooling applications.
- Casting and master alloys in Beryllium Copper, Beryllium Nickel, and Beryllium Aluminum.

AEROSPACE APPLICATIONS

Landing Gear Bushings
Door and Hatch Components
Actuator Bushings
Brake Systems
Speed Measurement and Instrumentation

OIL AND GAS INDUSTRY

Offshore Drilling Components
X-Mas Tree Valves
Drill Bit Bushings
Rotary Steerable Instrument Housings

PLASTIC TOOLING MARKET

Alloys with High Hardness and Thermal Conductivity
Core and Cavity Inserts for Injection Molds
Pinch-Offs and Parting Line Inserts for Blow Molds
Core Caps for Packaging Container Molds

WELDING, DIE-CASTING, AND FORMING INDUSTRIES

High Hardness and Thermal Conductivity Alloys
Resistance Welding



Alloy Specifications



DELIVERING SOLUTIONS

Family	Alloy	ASTM	Military	Aerospace	RWMA	Plastic Tooling
CuBe	C17200	B196, B251, B643	QQ-C-530	AMS4533, AMS4534, AMS4535, AMS4650	CLASS 4	YES
	C17510	B196, B870			CLASS 3	
	C17500	B196, B870			CLASS 3	
CuCr	C18150				CLASS 2	
	C18200				CLASS 2	
	C18020					
CuNiSiCr	N/A				CLASS 4	YES
	C18000				CLASS 3	YES
Alum Bronze	C61400	B169, B171				
	C62400	B150				
	C62500					
	C63200	B124, B150, B170	QQ-C-465, MIL-B-24059			
	C63000	B124, B150, B171	QQ-C-465, MIL-B-16166	AMS4640, NFL 14-705		
	C63020			AMS4590, NFL 14-706		
	C64700	B411				
	C93200					
	C95400					
CuNi	C70600	B151, B122, B171, ASME SB151	MIL-C-15726F			
	C71500			NFL 14-701		
CuNiSi	UN3S					
OFHC	C10100	B170				
	C10700	B170				
	C10800	B170				
	C11000	B124				

Size and Shape Capability

DELIVERING SOLUTIONS

Shape	Min/Max wall	Min/Max Diameter	Max width	Max length
Plates	1"/24" (25/610mm)	-	48" (1220mm)	100" (2540mm)
Rounds	-	0.5"/20" (13/508mm)	-	144" (3658mm)
Tubes	0.25"/2" (7/50mm)	1"/8" (25/204mm)	-	144" (3658mm)
Rings	1"/4" (25/100mm)	8"/60" (204/1524mm)	12" (305mm)	-
Custom Forgings	Inquire	Inquire	Inquire	Inquire

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