CDA C95400 (ASTM-B-505-9C) ALUMINUM BRONZE

OTHER DESIGNATIONS GIVEN TO THIS MATERIAL

ASTM PRESENT = B148-954/B271-954	**MILITARY** = MIL-B-16033/CL 3(2)	**ASTM PAST** = B148-9C/B763
FEDERAL NEW QQ-C-390-B = 954	**A.M.S. AND OTHER BANDS** = AMS 4870-C/AMPCO 18	**FEDERAL OLD** = QQB-671b/COMP 3AC
	SAE – 9C	

MECHANICAL PROPERTIES

Tensile Strength (minimum) psi* – 85,000

Elongation % in 2" – 12

Yield Strength (minimum) psi* – 32,000

Brinell Hardness** – 170

*Minimum tensile strength and yield strength shall be reduced 10% for cast bars having cross section, thickness, diameter or wall of 4" (102mm) or more. The cross sections are the diameter of a round solid, the distance across the flats of a solid hexagon, the thickness of a rectangle and the wall thickness of a tube.

**Brinell numbers represent Sand Casting Standards, to be used for information only and should not be used for specification purposes.

MATERIAL CHARACTERISTICS

The most popular Aluminum Bronze grade. It offers high yield strength, exceptional toughness, excellent resistance to wear and fatigue and deformation underload. This material grade also possesses excellent resistance to repeated, severe impacts. It has good machinability and can be welded.

MATERIAL USES

Industries commonly using this material grade are; mining, steel mills, pulp and paper mills, farm implements, ship builders, construction industries and numerous heavy equipment applications. Typical uses are heavy duty bushings and bearings, spur gears, gears, pickling hooks & baskets, worm wheels, thrust washers, screw down parts and valve components.

NOMINAL CHEMICAL PROPERTIES

Cu % – 86 | **A1 %** – 10 | **Fe %** – 1

MATERIAL PRODUCED TO AND CERTIFIED BY ISO 9002 (CERTIFICATE #1272)

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