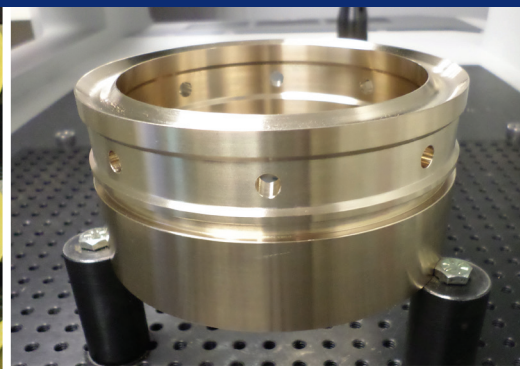
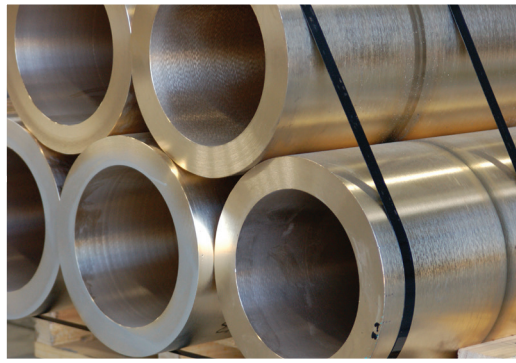
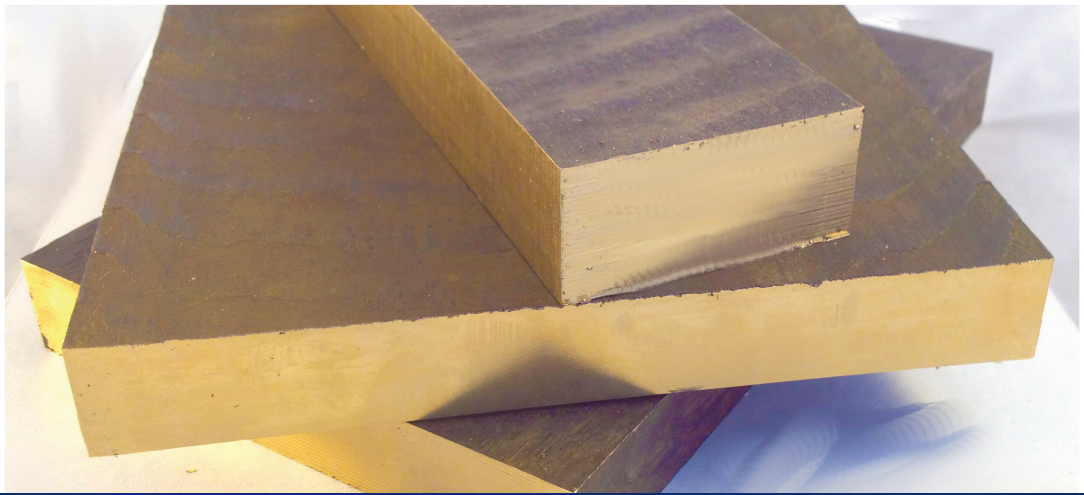
AVIVA METALS

OIL & GAS ALLOYS

THE LEADING USA MANUFACTURER & MASTER DISTRIBUTOR OF BRASS, BRONZE, COPPER ALLOYS & MACHINED PARTS







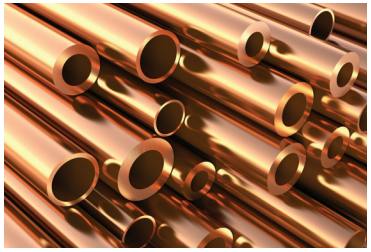
HOUSTON, TEXAS | LORAIN, OHIO | MONTERREY, MEXICO | TOULON, FRANCE

C10100 / C10200 OXYGEN FREE COPPER

Available in solid bars, bus tubes, bus bars, sheet and plates

Oxygen-Free Electronic Copper is a 99.99% pure copper with 0.0005% oxygen content. C101 achieves a minimum 101% IACS conductivity rating. This copper is finished to a final form in a carefully regulated, oxygen-free environment. C10100 has HIgh Ductility, High electrical and thermal conductivity and low volatility under high vacuum.

C11000 ELECTROLYTIC TOUGH PITCH COPPER



Available in solid bars, bus tubes, and bus bars

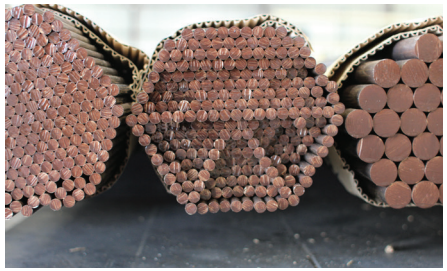
For most industrial applications, these alloys are considered to be pure copper. As such, they are best known for their highly conductive properties and usage in both thermal and electrical applications. These alloys are non-corrosive, highly malleable,and ductile. Uses include bus bar and heat transfer type applications.

C17200 BERYLLIUM COPPER

Available in solid & hollow bars, and plates

Tempers Available: TF00, TB00, DST, FMC Overaged

This copper alloy can have the highest mechanical properties of all copper alloys. This alloy also has excellent bearing qualities with extremely high compressive strength for high loading applications. It also has excellent abrasion and corrosion resistant properties, plus outstanding cryogenic characteristics.



C36000 FREE MACHINING BRASS

Available in solids & hollow bars, flat bars, hex, and squares

This alloy sets the standard for machinability, and is used for the manufacturing of various machined components. Free machining brass can also be thread rolled and deep drilled. Primary applications include fluid connectors, low pressure valves, and gas fittings.

C44300 ADMIRALTY BRASS

Available in tubes

Usually made to order to meet the engineering requirements of the Oil & Gas industry, this alloys thermal conductivity and non-corrosive properties has it utilized in heat exchange applications. Other applications include artificial lift hydraulics, and pneumatic pump liners.

C46400 NAVAL BRASS – LEAD FREE

Available in solid bars, hex bars, flats, and plates

This lead free alloy maintains a machinability of 30% and posses mechanical properties better than regular brass. Typical uses are in seal glands, nuts, valve stems & seats. Its name 'Naval Brass' stems from its marine application usage such as marine hardware, flanges, baffle plates, and end plates (Discs) for heat exchangers.

C61400 ALUMINUM BRONZE

Available in solid bars and plates

This alloy is recommended for corrosive applications requiring characteristics. Plate in this alloy is resistant to grain boundary stress corrosion cracking. This allows the material's strength to exceed potential stress levels in corrosive environments.

C63000 NICKEL ALUMINUM BRONZE

Available in solid bars and plates

A high strength, tough nickel aluminum bronze used where high mechanical properties are required. This alloy is a heat treatable aluminum bronze containing 5% nickel, that provides excellent bearing properties with good corrosion resistance. It is used extensively for valve stems, pump shafts, seal glands, and BOP parts.

C70600 COPPER NICKEL '90/10'

Available in solid bars, plate, tube

Copper nickel offers excellent corrosion resistance, especially in marine salt water environments. The main, wrought copper-nickel alloys chosen for sea water service contain 10 percent nickel. They also have important additions of iron and manganese which are necessary to maintain good corrosion resistance.

C71500 COPPER NICKEL '70/30'

Available in solid bars, plate, tube

Copper nickel offers superior corrosion resistance, especially in marine salt water environments. The main, wrought copper-nickel alloys chosen for sea water service contain 30 percent nickel. They also have important additions of iron and manganese which are necessary to maintain good corrosion resistance.

C86300 MANGANESE BRONZE

Available in solid & hollow bars and wear plates

This cast manganese bronze is typically supplied in continuous cast or centrifugally cast bars and tubes for high load bearing applications. This material achieves over 110 ksi tensile strength and an elongation of 14% minimum. It is excellent in applications requiring high strength metal to metal wear such as wear bushings, pump impellers, and linage bushings.

C93200 HIGH LEADED TIN BRONZE 'SAE 660'

Available in solid & hollow bars, wear plates, and shapes

This alloy is the most popular of the bearing bronzes. It has outstanding bearing properties at low and medium loads. Also, its 7% lead content makes it highly machinable. Many rotating parts of modern drilling rigs utilize this low friction, general purpose bronze alloy.

C95400 ALUMINUM BRONZE '9C'

Available in solid & hollow bars and wear plates

This is the most popular aluminum bronze and is used in a lot of different industrial applications. This extra tough bearing material is used for heavy loads with good resistance to impact and corrosion. Aluminum bronze has a lot of good properties and is the most readily available high strength bearing material. Additional applications include wear plates, mechanical guides, marine hardware, and valve seats.

C95500 NICKEL ALUMINUM BRONZE '9D'

Available in solid bars, tubes, shapes, wear plates and machined parts

C95500 Nickel Aluminum Bronze, also known as 9D, contains nickel similar to other grades of high strength aluminum bronzes, which makes it one of the toughest alloys in the industry. C95500 Nickel Aluminum Bronze also has superior resistance to sea water corrosion, heat resistance, good machinability, and weldability. Other benefits of CDA 955 are exceptional yield, compressive strength, high hardness, and fairly high elongation. This alloy can also be readily used for all lead free applications.

C95800 'ALPHA' NICKEL ALUMINUM BRONZE

Available in solid & hollow bars and wear plates

This alloy is typically used for parts that come in contact with sea water. Bars can be supplied in a stress relieved condition so as to prevent “stress corrosion cracking.” Typical applications are for vertical turbine pumps, propeller hubs and blades, and other marine hardware and fittings.

AVIVA METALS

Aviva Metals is the leading USA manufacturer & master distributor of brass, bronze, copper alloys & machined parts.

Aviva Metals has brought together a range of copper alloys, specifically for oil & gas applications so as to provide you with one source to turn to for your ongoing requirements.

This family of copper alloys is used for a wide variety of applications, such as flex shafts, valve stems, pump shafts, BOP parts, rock bit bearings and bushings, pump impellers, wear plates, marine hardware, valve seats and many other high demanding applications where heavy loads, corrosion, conductivity and/or abrasion are issues of concern. You will find that we have the right copper alloys that you and the entire oil & gas industry demand ready for immediate shipment to anywhere in the United States or across the world.

We are proud to be an ISO 9001-2015 certified company and have maintained our certification since 1999.

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