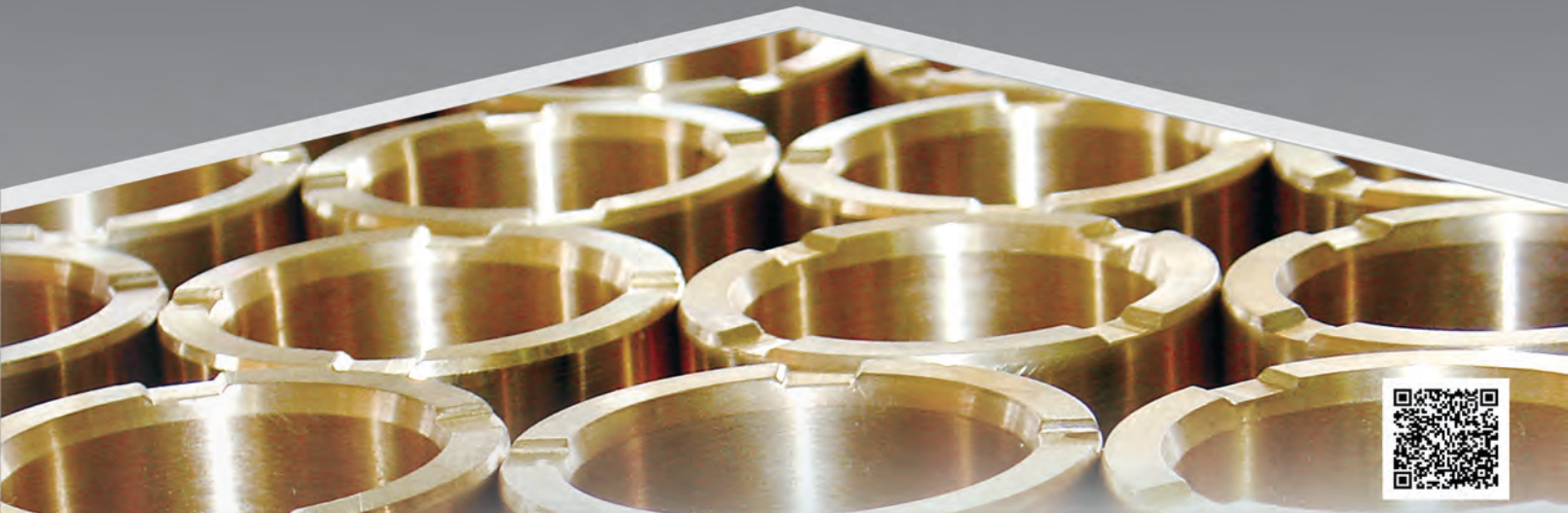
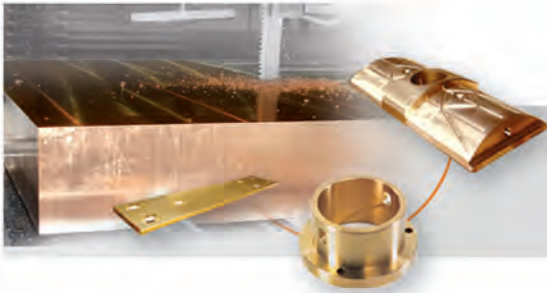


APPLICATIONS GUIDE



AMPCO METAL EXCELLENCE IN ENGINEERED ALLOYS

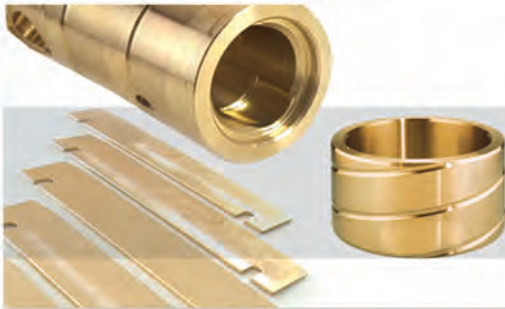


AMPCO® 18

The exceptional wear and fatigue resistance of this alloy results from a controlled duplex alpha and beta phase. It has high strength combined with good ductility and unusual toughness.



AMPCO METAL EXCELLENCE IN ENGINEERED ALLOYS



AMPCO® 21

This alloy is used for guides, bushings, wear strips and some cams, replacing hardened steel when no impact is involved.



AMPCO METAL EXCELLENCE IN ENGINEERED ALLOYS



AMPCO® 22

The largest use is for rings, inserts, forming rolls etc... in forming, bending or drawing operations, especially when stainless steel or titanium is the material being processed. This alloy is also widely used as work support blades for centerless grinding of steel rods.



AMPCO METAL EXCELLENCE IN ENGINEERED ALLOYS



AMPCO® M4

Typical applications include aircraft landing gear, bearings, bushings, bending dies, wiper dies and mandrels for the tube bending industry. Also for gear wheels, wear guides etc...



AMPCO METAL EXCELLENCE IN ENGINEERED ALLOYS



AMPCO® 25

The phenomenal success of this alloy led to its use as forming rolls, deep drawing dies and punches. It is considered the standard of material in this field of application.



AMPCO METAL EXCELLENCE IN ENGINEERED ALLOYS



AMPCO® 26

This high hardness alloy displays outstanding mechanical properties. Its extreme hardness, linked with an excellent compressive strength and very good friction properties make it an ideal material of choice for punches and deep drawing tools.



AMPCO METAL EXCELLENCE IN ENGINEERED ALLOYS



AMPCO® 45 & M4

Both of these alloys are recommended for heavy duty, high load mechanical and corrosive applications, including aircraft bearings, bushings, pumps and marine shafts, machine tools parts etc...They each are produced per the AMS 4640, 4590, 4880, 4881 aerospace specification.



AMPCO METAL EXCELLENCE IN ENGINEERED ALLOYS

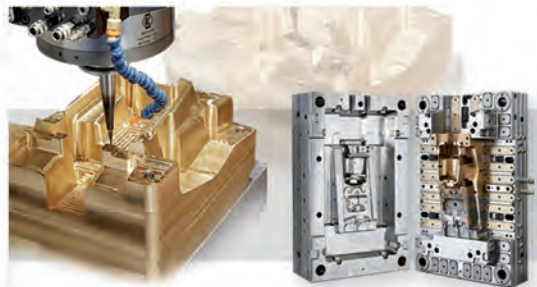


AMPCOLOY® 940

The typical applications includes chill plates for molds used in injection and blow molding, cooling pins, ejector pins and other parts, spot welding electrodes, seam welding wheels, butt welding dies and plunger tips for aluminum dies casting.



AMPCO METAL EXCELLENCE IN ENGINEERED ALLOYS

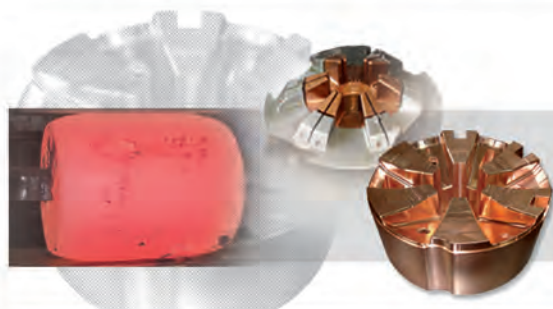


AMPCOLOY® 944

This alloy was invented by AMPCO METAL to provide optimal thermal conductivity, tensile strength and high hardness for plastic tooling, resistance and spot welding without the use of beryllium.



AMPCO METAL EXCELLENCE IN ENGINEERED ALLOYS



AMPCOLOY® 83

In the plastic mold industry, this alloy is widely used as chill plates and inserts in the molds for injection molding, also for cooling pins, neck rings and bottom plates for blow molding.



AMPCO METAL EXCELLENCE IN ENGINEERED ALLOYS



AMPCOLOY® 91/95/972

Widely used as spot welding electrodes, seam welding wheels, projection and butt welding dies etc...



AMPCO METAL EXCELLENCE IN ENGINEERED ALLOYS



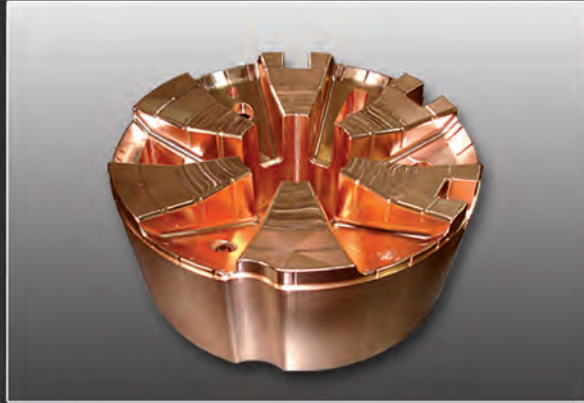
With ..:microcast®

AMPCO® alloys will give you :

- Superior wear characteristics
- Greater resistance to corrosion
- Higher mechanical properties
- A consistent, reliable product



AMPCO METAL EXCELLENCE IN ENGINEERED ALLOYS



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