

Material Guide Brass



Brass is an alloy primarily made of copper and zinc, and its characteristics can vary depending on the ratio of these two metals. However, here are some general properties of brass:

CHARACTERISTICS of BRASS:

- **Color and Appearance:**
 - Brass has a yellow or gold satin appearance. The color will change depending on the amount of zinc in the alloy.
- **Corrosion Resistance:**
 - Brass is resistant to corrosion, particularly from water, and it doesn't rust like iron or steel. However, it can tarnish over time, especially when exposed to air or moisture, which results in a greenish patina.
- **Strength and Durability:**
 - While brass is not as strong as some other metals like steel, it has good strength for many applications. It's durable enough for everyday use and holds up well in situations where moderate strength is needed.
- **Conductivity:**
 - Brass has moderate electrical and thermal conductivity, though it is not as good as copper. This property makes it useful in applications where conductivity is important but less critical than for pure copper.
- **Non-magnetic:**
 - Brass is non-magnetic, making it ideal for certain applications where magnetism would be problematic, like in electronic components..

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APPLICATIONS for BRASS:

- **Identification and Labeling:**
 - Nameplates for equipment, machinery, or office doors
 - Tagging Equipment and Assets, Asset Tracking
 - High contrast and detail make scanning reliable, even on small tags
- **Key Tags:**
 - Brass Key Tags for hotels, offices or personal use
 - Numbered Key Tags
- **Inventory and Storage:**
 - Tags for storage bins for easy identification, tracking inventory
 - Storage bin and shelf tags in commercial & industrial settings
- **Memorials and Plaques:**
 - Cemetery or Memorial Tags
 - Commemorative Plaques
- **Industrial and Mechanical Tags:**
 - Tags for safety instructions, warnings, or operating instructions
 - Inspection Tag for machinery, vehicles, or safety equipment
- **Military and Personal Identification:**
 - Military ID Tags, dog tags or personal ID tags
 - Personalized tags for personal use, luggage or pet tags
- **Valve and Pipe Identification:**
 - Tags for plumbing and HVAC systems
 - Utility pole markers
- **Jewelry and Accessories:**
 - Brass tags are used as part of custom jewelry designs
 - Personalized Gifts, Brass tags can be added to various accessories
- **Security and Property Identification:**
 - Brass tags are used for marking, electronics, tools, equipment
 - Security Tags, tags on locks, safes or security systems
- **Awards and Trophies:**
 - Brass tags are often attached to trophies, awards, and certificates
 - Donor Recognition: Donor board signs, benches
- **Craft and Art Projects:**
 - Brass tags can be used in art installations or as labels for crafts
 - DIY projects for personalized or custom creations

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BENEFITS OF BRASS:

Using Brass comes with several advantages, making it a popular choice for both decorative and functional applications. Here are some key benefits of using real brass:

- **Aesthetic Appeal:**

- Brass has a rich, warm, gold-like color that can add a touch of elegance and sophistication to products. It's commonly used in items like jewelry, furniture hardware, and decorative accents because of its attractive appearance.

- **Durability and Strength:**

- While not as strong as steel, real brass offers a good balance of strength and durability. It resists wear and tear over time and can withstand moderate stress, making it ideal for items like plumbing fittings, musical instruments, and mechanical parts.

- **Sustainability:**

- Real brass is highly recyclable. The metal retains its properties even after being recycled, and using recycled brass can reduce environmental impact, making it an eco-friendly option in many applications.

- **Corrosion Resistance:**

- Brass will naturally form a protective oxide layer over time (called a patina) which will help resist corrosion in the underlying metal.

- **Low Maintenance:**

- Unlike some metals that require frequent maintenance to prevent rust or degradation, brass is relatively low-maintenance. Though it may tarnish over time, it can easily be polished back to its shiny, golden luster with minimal effort.

- **Thermal and Electrical Conductivity:**

- Brass has moderate conductivity, which makes it a good material for components that require thermal or electrical conductivity but don't need the high performance of pure copper. This is beneficial for electrical connectors, switches, and heat exchangers.

