

List of Overmolding Metals and Alloys

The following materials are selected for overmolding based on their specific properties to suit various applications in industries like electronics, aerospace, automotive, and more.

| Metal/Alloy | Properties | Common Uses |
|--------------------|---|---------------------------------------|
| Aluminum | Lightweight, Corrosion Resistant | Electronics, Automotive |
| Stainless Steel | Durable, Corrosion Resistant | Kitchenware, Medical Devices |
| Copper | High Conductivity | Electrical Wiring, Electronics |
| Brass | Good Machinability, Corrosion Resistant | Decorative Items, Gears |
| Bronze | Strength, Corrosion Resistant | Marine Hardware, Bearings |
| Nickel Silver | Strength, Good Conductivity | Musical Instruments, Decorative Items |
| Zinc | Low Cost, Durable | Die Casting, Automotive |
| Titanium | High Strength, Lightweight | Aerospace, Medical Implants |
| Magnesium | Very Lightweight, High Strength | Automotive Components, Aerospace |
| Lead | High Density | Batteries, Radiation Shielding |
| Pewter | Low Melting Point, Malleable | Decorative Items, Jewelry |

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| Invar | Low Thermal Expansion | Precision Instruments |
| Kovar | Thermal Expansion Similar to Glass | Hermetic Seals, Electronics |
| Monel | Corrosion Resistant, Strong | Chemical Processing Equipment |
| Hastelloy | High-Temperature Strength | Chemical Processing |
| Inconel | High-Temperature Strength, Corrosion Resistant | Aerospace, Chemical Processing |
| Nitinol | Shape Memory, Superelasticity | Medical Devices, Eyeglass Frames |
| Tungsten | High Density, High Melting Point | Electronics, Aerospace |
| Molybdenum | High Melting Point, High Strength | Electronics, Industrial Applications |
| Beryllium Copper | High Conductivity, Strength | Connectors, Switches |

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