

## Major Applications for Copper Powders

**Bearings-165** and **151** are recommended for blending with tin for the production of bronze self-lubricating bearings.

**Structural Parts-165, 151, 201** and **301** are admixed with iron powder (2-10%) to improve strength and mechanical properties. These powders are also used to produce bronze and other alloy structural components.

**Injection Molding- 635** is specifically designed for parts produced using **MIM**.

**Friction Components-151** is used for aircraft and other braking systems. It is also used for automotive and industrial "friction" components and applications.

**Electrical Parts-185E** is the industry standard for yielding high strength parts with excellent conductivity. Additionally **635** offers high purity and is specifically designed for injection molded parts.

**Carbon Brushes - 41** is engineered for carbon brush tamping applications.

**Abrasive Wheels - 165, 151, 201** and **301** are used as a matrix-bonding material for diamond and other abrasive wheels and cutting tools.

**Chemical Formulations-165, 151, 185E, 101, 201** and **301** are widely used as catalysts in chemical formulations and for the production of copper compounds.

**Thick/Thin Films-2000** is used for conductive coatings.

For additional information on our new line of Ultra-Pure, Ultra-Fine Copper Powders please see product brochure for this product line.

### Some useful data regarding Copper

Atomic Number.....	29
Atomic Weight.....	63.54
Specific Gravity.....	8.92
Melting Point.....	1083 C (1981 F)
Boiling Point.....	2595 C (4703 F)
Thermal Conductivity @ 20 C....	0.941 cal/sq.cm/cm/sec/C
Electrical Resistivity @ 20 C.....	1.6730 micro ohms/cm

**ACuPowder**

*Responding to Market Demand*

*We have been part of your lives for over 90 years*