

## Chicago Extruded Metals BioBrass® UNS C63000 Aluminum Bronze

Category : Metal , Nonferrous Metal , Copper Alloy , Bronze

### Material Notes:

Finished product available as bar,rod, forged, shapes, or tubes.Chicago Extruded Metal temper codes: H02, M30This alloy is registered with the U.S. EPA as Antimicrobial.Information provided by Chicago Extruded Metals

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chicago-Extruded-Metals-BioBrass-UNS-C63000-Aluminum-Bronze.php](http://www.lookpolymers.com/polymer_Chicago-Extruded-Metals-BioBrass-UNS-C63000-Aluminum-Bronze.php)

| Physical Properties | Metric    | English                  | Comments |
|---------------------|-----------|--------------------------|----------|
| Density             | 7.58 g/cc | 0.274 lb/in <sup>3</sup> |          |

| Mechanical Properties   | Metric        | English            | Comments |
|-------------------------|---------------|--------------------|----------|
| Hardness, Rockwell B    | 96 - 98       | 96 - 98            |          |
| Tensile Strength        | 621 - 814 MPa | 90000 - 118000 psi |          |
| Tensile Strength, Yield | 345 - 517 MPa | 50000 - 75000 psi  |          |
| Elongation at Break     | 15 - 20 %     | 15 - 20 %          |          |

| Thermal Properties   | Metric     | English                           | Comments |
|----------------------|------------|-----------------------------------|----------|
| Thermal Conductivity | 51.9 W/m-K | 360 BTU-in/hr-ft <sup>2</sup> -°F |          |

| Component Elements Properties | Metric      | English     | Comments   |
|-------------------------------|-------------|-------------|------------|
| Aluminum, Al                  | 9.0 - 11 %  | 9.0 - 11 %  |            |
| Copper, Cu                    | >= 76.75 %  | >= 76.75 %  | as balance |
| Iron, Fe                      | 2.0 - 4.0 % | 2.0 - 4.0 % |            |
| Manganese, Mn                 | <= 1.5 %    | <= 1.5 %    |            |
| Nickel, Ni                    | 4.0 - 5.5 % | 4.0 - 5.5 % |            |
| Other, total                  | 0.50 %      | 0.50 %      |            |
| Silicon, Si                   | <= 0.25 %   | <= 0.25 %   |            |
| Tin, Sn                       | <= 0.20 %   | <= 0.20 %   |            |
| Zinc, Zn                      | <= 0.30 %   | <= 0.30 %   |            |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Electrical Resistivity<br>Electrical Properties | 0.0000246 ohm-cm<br>Metric | 0.0000246 ohm-cm<br>English | Comments |
|---|----------------------------|-----------------------------|----------|
|---|----------------------------|-----------------------------|----------|

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China