Zinc Copper
ALLOY NANOPOWDER

QUICK FACTS

Product: Zinc Copper Alloy Nanopowder
Stock No: NS6130-07-709
CAS: 63338-02-3
Color: Black brown
Form: Powder

Brass is the name used to describe a copper alloy, which has certain zinc content. Copper is one of the metals that were first able to be worked by humans, as it melts at a temperature of around 1,080°C and is very easy to work due to its low hardness. Zinc has an even lower melting point (420°C) and is able to form mixed crystals with copper. By combining copper with zinc, an alloy is formed, which is harder than copper, but still has very good working properties. Brass is the generic term for a range of copper-zinc alloys with differing combinations of properties, including strength, machinability, ductility, wear-resistance, hardness, colour, electrical and thermal conductivity, hygiene and corrosion resistance. Copper Zinc Alloy is commonly used for decorative purposes primarily because of its resemblance to gold. It is also a commonly used to make musical instruments due to its high workability and durability.

Chemical Composition

Molecular Formula: Cu:Zn
Molecular weight: 128.9 g/mol
Density: 1.17 g/cm³
SSA: 10.2 m²/g

Technical Specification

Assay: 99.9%
Zn: 40%
Cn: 60%
Others: < 0.1 %

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Applications

Brass’s valuable properties and relative ease of production have made it one of the most widely used alloys.

- Nuts, bolts, threaded parts
- Terminals
- Jets
- Taps
- Injectors
- Appliance Rim
- Clock Components
- Builders Hardware
- Gear Meters

Additional Powder Characteristics

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Purity</th>
<th>APS</th>
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<tbody>
<tr>
<td>NS6130-07-709</td>
<td>99.9%</td>
<td>&lt;100nm</td>
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Ordering Information and Stock Availability

- Product: Zinc Copper Alloy Nanopowder
- Distribution: Global
- Stock Availability: Available
- Packing Sizes: 25Gms, 50Gms, 100Gms, 500Gms & Bulk Orders

Handling Recommendations

- Store in the original container in a dry location.
- Tumble contents prior to use to prevent segregation.
- Open containers should be stored in a drying oven to prevent moisture pickup.

Safety Recommendations

- Download MSDS/SDS NS6130-07-709
- SDS is available from the Nanoshel
- Website at https://www.nanoshel.com/sections/alloy-nano-powders

www.nanoshel.com | sales@nanoshel.com
Tel: +91 9779550077, 9779238252

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