

OMG Americas GlidCop® AL-25 Dispersion Strengthened Copper

Category : Metal , Metal Matrix Composite , Nonferrous Metal , Copper Alloy

Material Notes:

GlidCop® AL-25 is copper that is dispersion strengthened with 0.5 wt% ultrafine particles of aluminum oxide. It is produced using an internal oxidation powder metallurgy process whereby aluminum oxide is formed in the Cu matrix. The matrix is hardened while the Cu electrical and thermal conductivity are minimally lowered. The aluminum oxide particles are very thermally stable and remain effective in strengthening the copper matrix and resisting grain coarsening even after very long exposures to high temperatures as in brazing or high temp duty cycles. GlidCop® is available with three different levels of Al₂O₃. Increasing the Al₂O₃ levels will increase strength but decrease conductivities. All three grades can be further strengthened by cold work. GlidCop® is available in a wide range of extruded and drawn shapes and sizes, including rounds, rectangles, wire, plates, tubes, and strip. Available on a limited basis in powder form. Information provided by OMG Americas.

Order this product through the following link:

http://www.lookpolymers.com/polymer_OMG-Americas-GlidCop-AL-25-Dispersion-Strengthened-Copper.php

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---------------|-------------------|-------------------|
| Tensile Strength, Yield | 296 - 372 MPa | 42900 - 54000 psi | With 0% cold work |

| Thermal Properties | Metric | English | Comments |
|----------------------|-----------|------------------------------------|----------|
| Thermal Conductivity | 344 W/m-K | 2390 BTU-in/hr-ft ² -°F | |

| Component Elements Properties | Metric | English | Comments |
|--------------------------------|--------|---------|----------|
| Al ₂ O ₃ | 0.50 % | 0.50 % | |
| Copper, Cu | 99.5 % | 99.5 % | |

| Electrical Properties | Metric | English | Comments |
|------------------------|-------------------|-------------------|----------|
| Electrical Resistivity | 0.00000200 ohm-cm | 0.00000200 ohm-cm | |

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