

## HGW FLUID 0

### Brazing Alloy Specifications

#### STANDARD

- ISO 17672 Standard: CuP 385
- AWS A5.8 Standard: BCuP-9

#### COMPOSITION (w.%)

- Cu: Remainder | P: 6.0-7.0 | Sn: 6.0-7.0 | Si: 0.01-0.04 | Other: ≤0.25

#### PROPERTIES

- Solidus (°C): 635
- Solidus (°F): 1175
- Brazing Temperature (°C): 705-725
- Electrical Conductivity (%IACS): 5
- Elongation: 1%
- Density (g/cm<sup>3</sup>): 7.94
- Liquidus (°C): 675
- Liquidus (°F): 1247
- Brazing Temperature (°F): 1301-1369
- Resistance (microhm-cm): 34.5
- Tensile Strength (MPa): 600

#### MANUFACTURE CAPABILITIES

- Wire Diameter Range (mm): Φ0.8-Φ2.0 (spool) / Φ2.0 and above (coil)
- Rod Diameter and Length Range (mm):
  - diameter: 1.2-3.0 / length: 1-1000
- Other Forms: Ring

#### APPLICATIONS

- Application: Used for the brazing of copper and copper alloys.
- Characteristics: Melting temperature of this alloy is relatively low due to its tin content. It has excellent fluidity, and is well suited for small gaps. It has low plasticity, and it is not suitable for joints designed for vibrating working conditions.

#### STORAGE

The products shall be stored in its package with proper sealing. The warehouse where the brazing alloys are stored shall be dry and well-ventilated. Do not store the products with volatile and corrosive substances, such as acid and alkali.