

# CuSn10

Copper-tin alloy with high elongation and medium hardness suits for a wide range of industrial applications

## Key Features:

- > Excellent mechanical properties
- > Good corrosion resistance
- > Good electrical and thermal conductivity
- > Resistance to cavitation in sea water

## Example Applications:

- > Parts and housings for maritime applications
- > Heat exchangers, rocket engine parts, induction coils, electronics
- > Versatile applications requiring good conductivity

## [ Technical Data ]

| General Properties                                   | Density                   | ISO3369   | ≥ 8.78 g/cm <sup>3</sup> |
|--|---------------------------|-----------|--------------------------|
| Mechanical Properties<br>(As built)                  | Tensile Strength          | ISO6892-1 | ≥ 540 MPa                |
|  | Yield Strength            | ISO6892-1 | ≥ 400 MPa                |
|  | Elongation after Fracture | ISO6892-1 | ≥ 20 %                   |
| Mechanical Properties <sup>1</sup><br>(Heat treated) | Vickers hardness          | ISO6507-1 | ≥ 115 HV5/15             |
|  | Tensile Strength          | ISO6892-1 | n/a                      |
|  | Yield Strength            | ISO6892-1 | n/a                      |
|  | Elongation after Fracture | ISO6892-1 | n/a                      |
|  | Vickers hardness          | ISO6507-1 | n/a                      |

<sup>1</sup> For more information on heat treatment process, please contact us directly. Farsoon systems are open material platform. For special materials such as tungsten, tantalum and pure copper, please contact us with your inquiries or requirements.

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