

## METAL SOLUTIONS

# EOS CopperAlloy CuNi30

## Material Data Sheet

### EOS COPPERALLOY CUNI30

## Excellent Corrosion Resistance in Salt Water

EOS CopperAlloy CuNi30 is a copper alloy with excellent corrosion resistance in salt water. It has good strength and ductility. CuNi30 has good ductility also in very low temperatures. Material is in accordance with UNS 96400.

### MAIN CHARACTERISTICS

- Good corrosion resistance in salt water
- Performance in very low temperatures
- Stable processability

### TYPICAL APPLICATIONS

- Pumps and impellers
- Marine applications

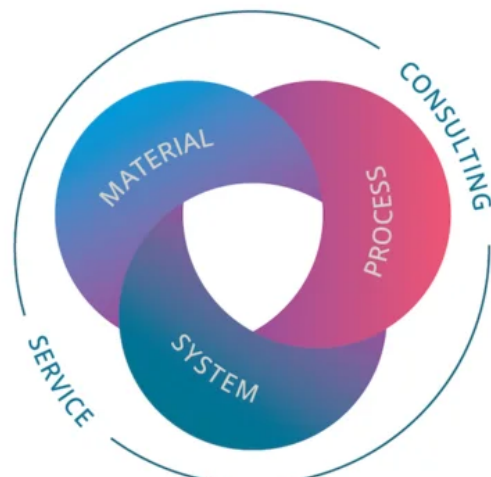
## The EOS Quality Triangle

EOS uses an approach that is unique in the AM industry, taking each of the three central technical elements of the production process into account: the system, the material and the process. The data resulting from each combination is assigned a Technology Readiness Level (TRL) which makes the expected performance and production capability of the solution transparent.

EOS incorporates these TRLs into the following two categories:

- Premium products (TRL 7-9): offer highly validated data, proven capability and reproducible part properties.
- Core products (TRL 3 and 5): enable early customer access to newest technology still under development and are therefore less mature with less data.

All of the data stated in this material data sheet is produced according to EOS Quality Management System and international standards



# POWDER PROPERTIES

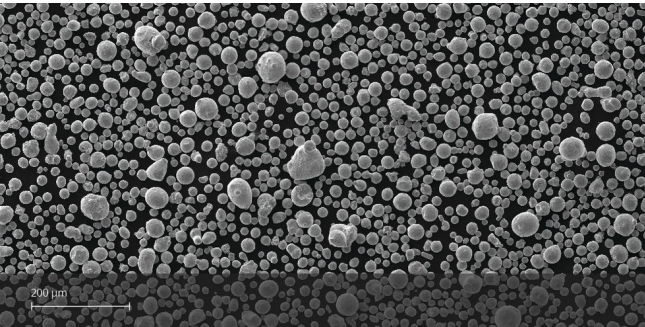
CuNi30 is a copper alloy according to ASTM B369-09 UNS 96400.

## Powder Chemical Composition (wt.-%)

Element	Min.	Max.
Cu		Balance
Pb	-	0.01
Fe	0.25	1.5
Ni	28	32
Mn	-	1.5
Si	-	0.5
Nb	0.5	1.5
P	-	0.02
S	-	0.02
C	-	0.15

## Powder Particle Size

GENERIC PARTICLE SIZE DISTRIBUTION	15 - 63 µm
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# HEAT TREATMENT

## Description

Optional stress relieve

## Steps

Optional stress relieve at 600 °C for 2 hours. Air cooling.  
Stress relieve reduces ductility of material.

## HEADQUARTERS

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Status as of 03.09.2024. Subject to technical modifications. EOS is certified according to ISO 9001.

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