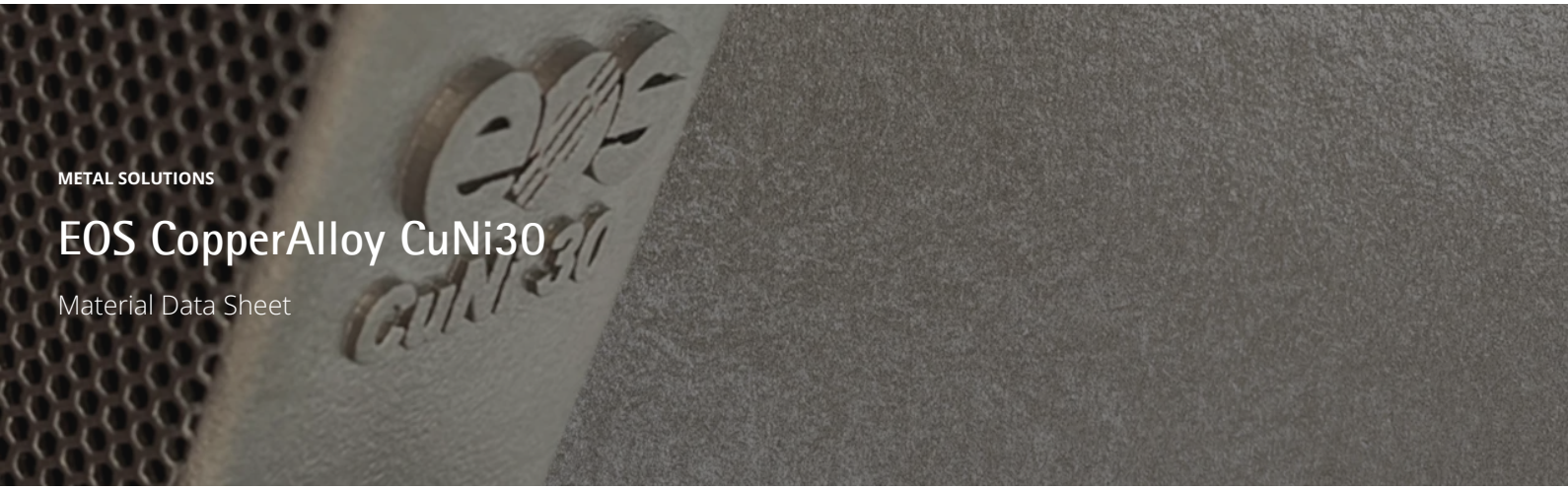


METAL SOLUTIONS

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

Download Process Data Sheet (PDF)

TYPICAL APPLICATIONS

- Pumps and impellers
- Marine applications

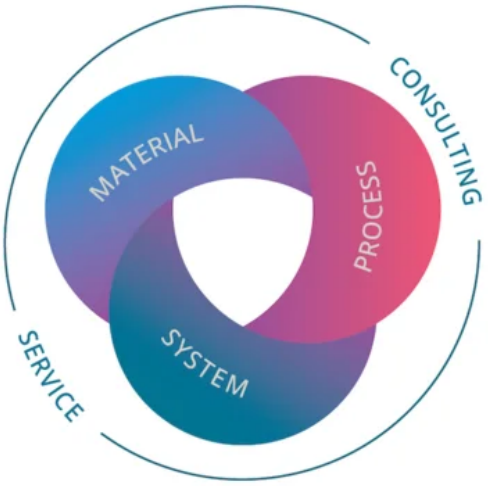
The EOS Quality Triangle

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

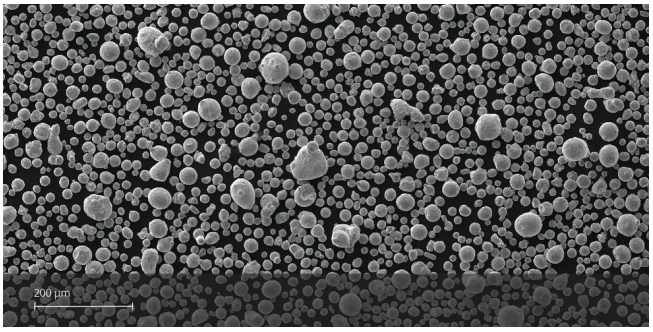
CuNi30 is a copper alloy according to ASTM B369-09 UNS 96400.

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**



SEM micrograph of EOS CopperAlloy CuNi30 powder.

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

EOS GmbH
Electro Optical Systems

Robert-Stirling-Ring 1
82152 Krailling / Munich
Germany

Tel.: +49 89 893 36-0
Email: info@eos.info
URL: www.eos.info

This powder has not been developed, tested or certified as a medical device according to Directive 93/42/EEC (MDD) or Regulation (EU) 2017/745 (MDR) and is not intended to be used as a medical device, in particular for the purposes specified in Art. 2 No. 1 MDR. Insofar as you intend to use the powder as raw material for the manufacture of pharmaceutical products or medical devices (e.g. as raw material which as a material must meet the requirements of Annex 1, Chapter II MDR), the responsibility and liability for all analyses, tests, evaluations, procedures, risk assessments, conformity assessments, approval and certification procedures as well as for all other official and regulatory measures required for this purpose shall lie solely with you both with regard to the pharmaceutical product and/or medical device manufactured by you and with regard to the properties, suitability, testing, evaluation, risk assessment, other requirements for use of the powder as raw material. In this respect, the limitations of liability pursuant to our General Terms and Conditions and the system sales or material contracts shall apply.

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Status as of 18.06.2026. Subject to technical modifications. EOS is certified according to ISO 9001.