

# EOS Achieves New Sustainability Standard and Additive Manufacturing Industry First: EOS Aluminium AlSi10Mg Now Produced with 100% Recycled Feedstock

**Turku, Finland, February 26, 2025** – EOS, a global leader of additive manufacturing (AM) technologies, services and materials, today announced one of its most popular metal materials, [EOS Aluminium AlSi10Mg](#), is now produced with 100% recycled feedstock. Increasing the recycled content to 100% has resulted in a 77% CO<sub>2</sub>e reduction from the prior material, and it now achieves 83% CO<sub>2</sub>e reduction compared to AlSi10Mg made from 100% virgin raw material. As one of the world's largest AM original equipment manufacturers, this is yet another step toward minimizing the climate impact of manufacturing.

EOS Aluminium AlSi10Mg was first added to EOS's Responsible Products portfolio in April 2024 when it began incorporating 30% recycled feedstock, achieving a 25% CO<sub>2</sub>e reduction. While EOS Aluminium AlSi10Mg now employs 100% recycled feedstock, the resulting material maintains the same properties, characteristics and performance in additively manufactured parts, ensuring existing customers do not need to requalify applications.

## **EOS Aluminium AlSi10Mg specifications:**

- Chemical composition standard: AlSi10Mg
- Ultimate tensile strength: 460 MPa
- Yield strength: 245 MPa
- Elongation at break: 5%
- Good thermal and electrical conductivity with possibility of heat treatment

"We're proud to have developed our first EOS metal material made with 100% recycled feedstock and to have achieved so much in less than a year," said Sophia Heyl, product specialist at EOS. "We will continue to explore ways to reduce the carbon footprint of our customers' applications with every EOS product – from materials and hardware to design optimization – they all add up to a more responsible end-use product for our customers and the climate."

## **Other EOS Responsible Products include:**

## News Release

- **VIRTUCYCLE® Used Polymer Material Take-Back Program** takes used polymer material and components with 100% sustainably sourced energy to transform AM powder into recycled high-performance injection molding granules
- **PA 1101 ClimateNeutral polymer materials** have 100% proven quality, zero CO<sub>2</sub>e emissions and are biobased products where all remaining GHG emissions are offset with Gold Standard carbon credits
- **PA 2200 CarbonReduced polymer materials** are products where GHG emissions are reduced significantly by suitable measures such as green energy use in the production process
- **Carbon Calculator** considers AM project carbon emissions with key cost metrics to provide an estimation of the organization's AM CO<sub>2</sub>e emissions and expenses

"We are continuing our path towards Responsible Manufacturing and expanding our portfolio of Responsible Products stepwise," said Björn Hannappel, head of sustainability at EOS. "By minimizing waste, reducing the environmental footprint and prioritizing eco-friendly materials, organizations can both protect our planet and create a more efficient and resilient business model."

There is no price difference for the new material, and EOS Aluminum AlSi10Mg is available now for purchase through the [EOS Store](#) or by contacting the EOS Life Cycle Solutions team.

### About EOS

[EOS](#) provides responsible manufacturing solutions via industrial 3D printing technologies to organizations around the world. Since 1989, EOS has shaped the future of manufacturing by enabling its customers to innovate and differentiate through expert guidance, technology and services, leveraging its end-to-end additive manufacturing (AM) industry partnerships. From strategy to education to production, EOS is the leading global partner for both metal and polymer AM solutions, accelerating time-to-market for its customers through high-quality production efficiencies and sustainable solutions.

**Graphic material**  [EOS Press Center](#)

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