

EOS Adds Responsible Aluminium AlSi10Mg Material and VIRTUCYCLE® Polymer Material Take-Back Program to its Growing Responsible Manufacturing Portfolio

Krailling, Germany, April 30, 2024 – EOS, a global leader of additive manufacturing (AM) technologies, services and materials, today announced the addition of its [EOS Aluminium AlSi10Mg](#) to its [Responsible Products](#) portfolio alongside the launch of [VIRTUCYCLE®](#) – its global used polymer material take-back program to reduce material waste. As one of the largest AM original equipment manufacturers (OEMs) in the world, EOS is committed to minimizing the climate impact of manufacturing, and today's announcement expands on that commitment.

Responsible EOS Aluminium AlSi10Mg

EOS Aluminium AlSi10Mg is one of the most popular products in its portfolio and now incorporates a minimum of 30% recycled feedstock achieving a 25% CO₂e reduction compared to the prior formulation. Additionally, the new formulation maintains the same properties, characteristics, and performance in additively manufactured parts, helping ensure existing EOS Aluminium AlSi10Mg customers do not need to requalify applications. Specifications for EOS Aluminium AlSi10Mg remain unchanged:

- 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

“Our commitment to offering responsible products that support AM production is growing to include our metal materials,” said Sophia Heyl, product specialist, metal materials at EOS. “We are striving to create carbon footprint transparency for our premium metal materials. These externally verified numbers are also providing transparency to our customers by including these materials in our [Carbon Calculator](#), furthering sustainability initiatives for both our customers and for EOS.”

VIRTUCYCLE® Used Polymer Material Take-Back Program Now Available

EOS has also partnered with [Agiplast](#), an Arkema company, to offer its new VIRTUCYCLE® program. VIRTUCYCLE® takes used polymer material and components, using 100% sustainably sourced energy to transform AM powder into recycled high-

