

EcoLum[™]

Primary aluminum with an emissions intensity 3 times better than the industry average²





- Mine-to-casthouse advantage: Direct and indirect emissions measured across bauxite mining, alumina refining and aluminum smelting and casting¹
- EcoLum is based on EcoSource[™] alumina coming from a refining system with emission intensity less than half of the global industry average²
- Renewable energy: Smelters powered with close to 100% renewable energy
- **Environmental Product Declaration:** Verified according to ISO 14025, and life cycle analysis performed per ISO 14044
- Available also as ASI-certified material
- Corporate greenhouse gas (GHG) inventory: Calculations third-party verified and consistent with ISO 14064

Improve your carbon footprint with premium aluminum

Alcoa's strong mine-to-casthouse advantage allows it to offer EcoLum[™] in our Sustana sustainable product line. EcoLum primary aluminum is produced with less than 4.0 metric tons of CO₂e for every ton of metal, including both direct and indirect (scope 1 and scope 2) emissions across the entire production chain, including mining, refining, smelting and casting. This performance is less than one third of the global industry average.² 3rd-party verified cradle-togate carbon footprint information is available for all product groups (remelt ingot, foundry, slab, billet, wire rod).

Delivered globally from predominantly hydro-powered smelters in North America and Europe, all casthouse shapes are available.

As the aluminum industry's pioneer, we are advancing sustainably and helping our customers realize new possibilities.

EcoLum emissions intensity vs. global average¹ per ton of CO₂e/ton of aluminum



Source: CRU emissions intensity data, 2022

Region of production (smelting)



The **Sustana**[™] family offers industry-leading environmental performance with a mine-to-casthouse advantage

Sustana EcoSource	Sustana EcoLum	Sustana EcoDura
Low-Carbon Alumina	Low-Carbon Primary Aluminum	Aluminum with Recycled Content
Made at refineries with average emissions ¹ below 0.6t CO ₂ e/t Alumina Cradle-to-gate carbon footprint data available	Emissions ¹ below 4t CO ₂ e/t Aluminum Cradle-to-gate carbon footprint data available	Minimum 50% recycled content ³
ASI certifications available	ASI certifications available	
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2 Scope 1 and 2 emissions from mining, refining, smelting and casting for EcoLum and from mining and refining for EcoSource. The emissions are reported in accordance with the IAI Aluminium Sector GHG Protocol, addendum to the WRI/WBCSD GHG protocol, the WRI/WBCSD Calculation Tool for Direct Emissions from Stationary Combustion, and the WRI GHG Protocol Scope 2 Protocol

² CRU emissions intensity data, 2022

³ Pre-consumer scrap. Recycled content is defined using credit allocation system at product line and facility level.