

**Choose European.
Choose Circularity.
Choose Circle Green.**

Transform every ending into a new beginning with Outokumpu Circle Green® stainless steel and solve your CO₂ impact today.



Circulate forever

Welcome to the Industrial Evolution. 100% stainless steel. Down to 7% the carbon footprint.

Outokumpu has led the change towards sustainable stainless steel manufacturing for decades with one breakthrough benchmark after another. Outokumpu Circle Green® marks our biggest achievement in this pursuit to date. With a carbon footprint down to 7% of the global average, it surpasses any existing solution in sustainability and sets yet another benchmark.

Circle Green is the world's first towards zero carbon stainless steel. It has the lowest carbon footprint in the industry — a reduction of up to 93% when compared to the industry average ¹⁾. By choosing the most sustainable stainless in the world in your application, you can become a forerunner in your industry.

How is Circle Green's carbon footprint calculated?

We use our TÜV SÜD -verified and award-winning Product Carbon Footprint which considers all Green House Gas (GHG) emissions throughout the whole production chain (Scope 1, 2, 3) from 'cradle to grate'.

Outokumpu is the first stainless steel producer in the world to provide Product Carbon Footprint (PCF) certificate using a third party-verified methodology. The data distinguishes Circle Green from other conventional stainless steel offerings. We even provide batch-specific CO₂ figures for Circle Green.

Green energy plays a significant role in the production of Circle Green, along with the use of special raw materials, such as organic coke for ferrochrome production, and optimized scrap management.

¹⁾ Outokumpu's average product carbon footprint (2024): 1.6 kg CO₂e per kg of stainless steel based on lifecycle assessment. Global average carbon footprint of stainless steel (2024): 7 kg CO₂e per kg of stainless steel. Outokumpu Circle Green CO₂ emissions: down to 0.5 kilos of CO₂e per kg of stainless steel. (Outokumpu's calculation based on data provided by CRU, worldstainless, and Kobilde & Partners AB).

²⁾ Outokumpu Circle Green Dura <1.3 tCO₂/kg

Climate compensating or offsetting has not been used in calculating the emissions.

³⁾ Case example

⁴⁾ Includes scopes 1, 2 and 3

Outokumpu Circle Green products

Moda	Core	Supra	Forta	Dura	Deco
EN 1.4016	EN 1.4301	EN 1.4404	EN 1.4162	EN 1.4034	EN 1.4301
EN 1.4512	EN 1.4307	-	-	-	EN 1.4307
-	EN 1.4509	-	-	-	EN 1.4404

Circle Green brings you the first full-scale stainless steel product line achieving below one tonne CO₂ emissions per tonne of stainless steel ²⁾, making market-leading sustainability immediately accessible across various grades.

Circle Green can currently be found in Outokumpu Moda, Core, Supra, Forta, Dura and Deco product ranges.

Circle Green is an ideal choice for any application that benefits from using high quality stainless steel as a raw material. It offers a highly sustainable solution for everything from consumer goods, automotive and heavy industries to building and infrastructure.

