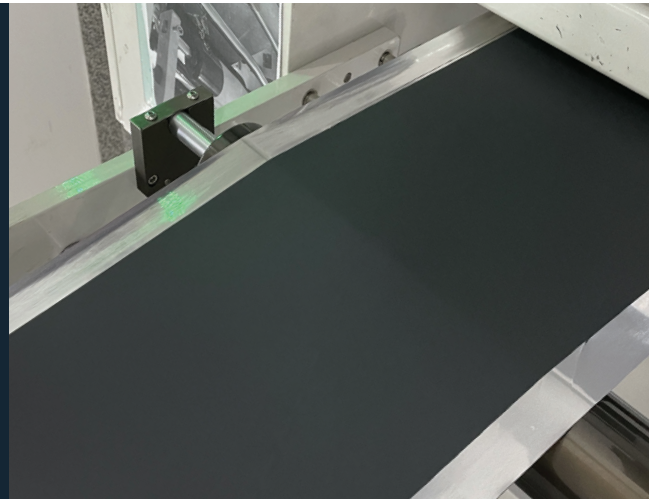


SUSTAINABLE BATTERY CATHODE FOIL

Featuring a low carbon footprint and light weight plus high strength and elongation properties, our cathode foil material offers the ultimate combination of performance and sustainability – the perfect choice for battery cell production.

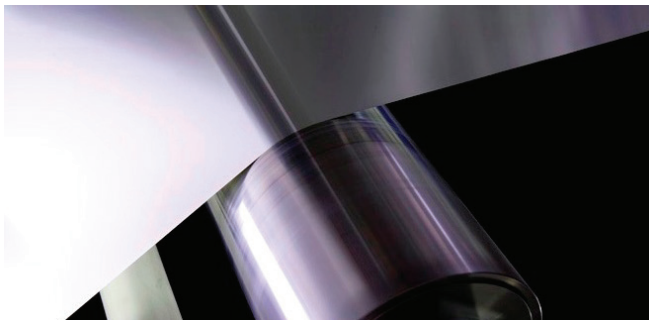
HIGH PERFORMANCE, NO COMPROMISES

Sustainability does not need to come at the cost of performance. At Granges, we bring together aluminium alloy expertise and cutting-edge engineering with the latest manufacturing technology and equipment, producing battery cathode foil materials with outstanding quality and performance.



| Typical Alloys | Temper | Gauge [µm] | Width [mm] | Tensile Strength [MPa] | Elongation, A ₅₀ [%] | Wettability [dynes] | Coil ID [inches] | Cleanroom standard | Carbon emissions [CO ₂ e tonne/tonne] |
|-------------------------|---------|------------|------------|------------------------|---------------------------------|---------------------|------------------|--------------------|--|
| FA5100 (AA1100 variant) | H18/H19 | 10-15 | Max 1440 | 245-310 | >1.5 | >33 | 3 or 6 | ISO 8 | 4.5 ¹ |
| FA5101 (AA1060 variant) | H18/H19 | 10-15 | Max 1440 | 180-230 | >3 | >33 | 3 or 6 | ISO 8 | 4.5 ¹ |

¹ The level is dependent on production site and includes emissions from cradle to gate. The calculation is done in accordance with Greenhouse Gas Protocol Standards.



CONTACT US

Camilla Lyhykäinen
camilla.lyhykainen@granges.com
+46 708 46 38 22

Amy Huang
amy.huang@granges.com
+46 702 83 82 24

SUSTAINABLE ALUMINIUM SOLUTIONS

LOW CLIMATE IMPACT



CIRCULAR AND RESOURCE-EFFICIENT



RESPONSIBLY SOURCED AND PRODUCED



GRÄNGES COMMITS TO CLIMATE NEUTRALITY BY 2040

Gränges has been a leader in innovative aluminium solutions for decades. Today, the company has a demonstrated industry-leading sustainability performance. EcoVadis, the largest independent provider of business sustainability ratings, has for example awarded Gränges a Platinum rating which ranks the company in the top 1% of companies assessed globally in the industry.



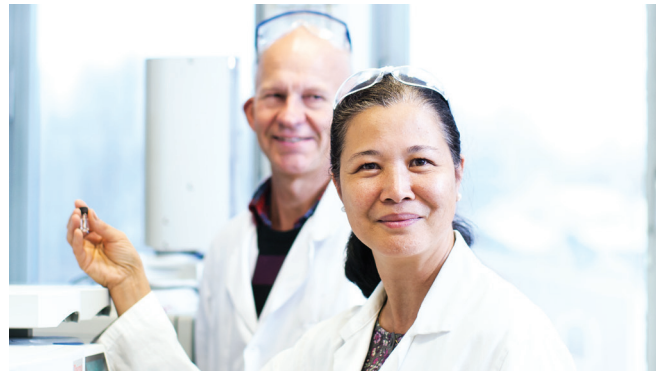
Copyright ©2022 Sustainalytics. All rights reserved. This publication contains information developed by Sustainalytics www.sustainalytics.com/legal-disclaimers.

The use by Gränges of any MSCI ESG research llc or its affiliates ("MSCI") data, and the use of MSCI logos, trademarks, service marks or index names herein, do not constitute a sponsorship, endorsement, recommendation, or promotion of Gränges by MSCI. MSCI services and data are the property of MSCI or its information providers and are provided 'as-is' and without warranty. MSCI names and logos are trademarks or service marks of MSCI.

125 years

A CENTURY OF EXCELLENCE IN ALUMINIUM

Built on the foundation of 125 years of innovative engineering, materials development, a strong focus on automotive, as well as world-class research, Gränges has become a global leader in high-performance aluminium alloys for a range of applications. Today, half of all the cars produced around the world contain material from Gränges.



GLOBAL PRESENCE, DEDICATED LOCAL TEAMS

Gränges is a proud Swedish aluminium technology company with production facilities on three continents: Asia, Europe and the Americas. All regions are IATF 16949 certified, with a total annual production capacity amounting to 560 ktonnes. We also have local technical teams on hand in every region providing the market's best technical support and engineering expertise. Whether innovating new solutions or overcoming specific challenges – we are here to help.