Foundry Alloys

Combining high-quality products, smart solutions and great service for your long-term success
Building progressive Partnerships

For more than a century, Hydro's history has been rooted in innovation and sustainable technological development. As a global player with local expertise we combine high-quality products, smart solutions and great service to enable our customers to reach their goals. In close collaboration with our customers we develop advanced products and solutions to meet their specific needs, always aiming to exceed expectations. We help to satisfy our customers’ needs by supplying the resources, services and high-quality input materials they require to deliver on their promises and meet challenging market developments. Progressive partnerships and long term relationships with our customers create optimum products, which help to improve performance and ultimately our customers’ business.

Closer to the customer

We continuously increase the efficiency of our production systems and improve our range of services to meet our customers’ individual requirements. Our regional market teams are close at hand to provide fast and professional customer service:

- Technical support
- Access to R&D resources
- Commercial services
- Market information and risk management
- Logistic solutions and supply chain management

Our advanced technological expertise combined with modern production equipment ensure a high and consistent product quality. Our agile and responsive logistic team is a warrant for on-time deliveries on your terms.

Many of our services are accessible 24/7 via our on-line customer service portal. This easy-to use facility gives customers added flexibility and helps to simplify their daily working routines. Customers can get an overview of their contract details, material certificates and up-to-date transport information, place new orders, carry out pricing and take advantage of our broad range of customized services. These optimized solutions add further value and help build and reinforce customer relationships.
Our foundry alloy production is based on primary aluminium. Consistent high metal quality is ensured by using top-grade raw materials, standardized production processes and continuous quality control.

We tailor our foundry alloys to meet individual customer specifications, but we also offer customized variants of the main alloy groups found in the aluminium foundry industry. Our alloys meet specifications in accordance with ISO, EN and JIS standards. Hydro’s R&D work focuses on the continuous improvement of conventional alloys as well as the development of new generation alloys which meet the ever-increasing demands of customers for improved material properties.

Depending on the production source, our foundry alloy ingots are supplied in weights of 7-23 kg. Bundle weights can range from 700-1200 kg.

<table>
<thead>
<tr>
<th>EN 1676 Chemical symbols</th>
<th>EN 1676 Numeric</th>
<th>USA (AA)</th>
<th>Japan (JIS)</th>
</tr>
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<tr>
<td>AlSi5Mg</td>
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</table>
Quality and environmental awareness

Quality Assurance in all parts of our production ensures accuracy and consistency in all our products. Good working environments, low emission and discharge rates, and optimal energy efficiency ensure that our production of foundry alloys has the least possible effect on the environment and humans.

Our focus on quality and our environmental awareness are documented in the certificates for the following standards:

- ISO 9001:2015 – Quality
- ISO 14001:2015 – Environment
- IATF 16949 – Automotive industry
- ISO 45001:2018 – Operating health and safety
- ISO 50001:2018 – Energy

ASI
Hydro is an active member of the Aluminium Stewardship Initiative (ASI). ASI’s mission is to recognize and collaboratively foster the responsible production, sourcing and stewardship of aluminium. We have been involved at all stages in the multi-stakeholder development of ASI standards to date as well as ASI’s certification program. The third party certification platform was launched in December 2017.

Hydro is currently in the process of certifying in total 15 plants and the ambition to offer fully certified aluminium in 2019 is core to Hydro’s strategy of offering the most sustainable products and solutions to the market.

Leading the low-carbon transition
Hydro has an industry-leading climate strategy that has resulted in producing aluminium with the lowest energy consumption and the lowest emissions in the world, and an aim to become carbon-neutral from a life-cycle perspective by 2020. As every part of the aluminum production is managed in-house, Hydro can provide customers with certified sustainable aluminum products. The new products are independently certified by DNV GL.

Hydro 4.0®

- Hydropower-based aluminium with a maximum carbon footprint of 4 kg CO2 per kg aluminium
- Certified to ISO 14064, covering all carbon emissions from bauxite mining and alumina refining to the production of aluminium in electrolysis and casting.
- Independently certified by DNV GL
Where to find us

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Hydro is a fully integrated aluminium company with 35,000 employees in 40 countries on all continents, combining local expertise, worldwide reach and unmatched capabilities in R&D. In addition to production of primary aluminium, rolled and extruded products and recycling, Hydro also extracts bauxite, refines alumina and generates energy to be the only 360° company of the global aluminium industry. Hydro is present within all market segments for aluminium, with sales and trading activities throughout the value chain serving more than 30,000 customers. Based in Norway and rooted in more than a century of experience in renewable energy, technology and innovation, Hydro is committed to strengthening the viability of its customers and communities, shaping a sustainable future through innovative aluminium solutions.