Aleris is a global leader in the manufacture and sale of aluminum rolled products, with manufacturing facilities across Europe, China and North America.

With more than 55 years of experience and know-how, we serve a variety of end-use industries, and are among the world’s leading suppliers of high-quality aluminum rolled products to the Aerospace industry.

In the Aerospace industry we specialize in the production of rolled aluminum plate and sheet materials for fuselage and wing structure components according to standard or customized specifications.
Aleris is helping our customers meet regional demand through two Aerospace industry certified plants in Koblenz, Germany and Zhenjiang, China.

Aleris supplies the global Aerospace industry with advanced aluminum materials of the highest quality, which meet not only the industry’s high standards but also all conceivable individual customer specifications.

ALERIS’ ADVANTAGES AND CAPABILITIES INCLUDE

- Broad standard and advanced alloy portfolio
- Plate and sheet in a broad dimensional range
- Specialties: ultra-thick plates, extremely wide sheets, wing plates
- Local production in Asia and Europe
- Value added services: contour sawing, pre-cutting/machining, drilling, sheet polishing, closed loop recycling

TWO AEROSPACE SITES – GLOBAL COORDINATION – LOCAL CONTACTS

KOBLLENZ, GERMANY

ZHENJIANG, CHINA
From its Koblenz facility, Aleris offers a broad range of Aerospace sheet alloys and specifications, including wide sheets and further fabrication such as polishing.

**HIGH QUALITY STANDARDS COMBINED WITH UNIQUE STATE-OF-THE-ART CAPABILITIES ENABLES ALERIS TO PROVIDE:**

- Broad portfolio (dimensions and alloys)
- Excellent surface properties (mill finished, bare, one side clad, both sides clad, polished skin quality)
- High formability
- Best chemical milling quality
- Minimum residual stress-quality (MRS)

**Dimensional capabilities sheet**

- **Thickness**: 0.032”–0.472” 0.8–12.00 mm
- **Width**: up to 136” up to 3,460 mm
- **Length**: up to 590” up to 15,000 mm

Other dimensions on request

**SHEET AND PLATE – QUALIFIED TO SUPPLY 90%+ ...**
The foundation of our Aerospace plate expertise resides in Koblenz, Germany, where the plant began producing Aerospace plate more than 35 years ago. Seizing the opportunity of projected growth in demand in Asia Pacific, we built our Zhenjiang facility in 2012.

Since then, our dimensional and specification capabilities were continuously extended. Aleris is operating one of the world’s most powerful hot rolling mills in both sites, in Koblenz and Zhenjiang.

**WING PLATES**

Based on our capability to produce wide and long plates and our deep processing know-how, Aleris offers high strength upper wing and high damage tolerant lower wing alloys in plates of various sizes and gauges for integral and built-up wing solutions.

### Dimensional capabilities plate

<table>
<thead>
<tr>
<th>Thickness</th>
<th>up to 11.8”</th>
<th>up to 300 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>up to 138”</td>
<td>up to 3,500 mm</td>
</tr>
<tr>
<td>Length</td>
<td>up to 945”</td>
<td>up to 24,000 mm</td>
</tr>
</tbody>
</table>

Other dimensions on request

### ADVANTAGES OF ALERIS’ ALUMINUM ROLLED PLATES

- High strength and ductility
- Extremely low level of porosity for excellent fatigue performance
- Minimal residual stresses, practically no distortion after machining

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**OF TODAY’S FLYING DEMAND**

<table>
<thead>
<tr>
<th>Material Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7075</td>
<td>AEROSPACE ALUMINUM PLATE</td>
</tr>
<tr>
<td>7075 ALCLAD</td>
<td>AEROSPACE ALUMINUM PLATE</td>
</tr>
<tr>
<td>7150</td>
<td>AEROSPACE ALUMINUM PLATE</td>
</tr>
<tr>
<td>7475</td>
<td>AEROSPACE ALUMINUM PLATE</td>
</tr>
</tbody>
</table>
Shape cutting and pre-machining can be offered to optimize cost efficiency and to minimize metal yield at the customer site. Closed loop recycling concepts are available upon request.

Aleris is specialized in pre-machining for long components such as wing plates which can be supplied in shaped, surface machined or even tapered format.

**Dimensional capabilities**

<table>
<thead>
<tr>
<th>Axis</th>
<th>Range</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-axis</td>
<td>up to 1,771.70”</td>
<td>up to 45,000 mm</td>
</tr>
<tr>
<td>Y-axis</td>
<td>up to 157.5”</td>
<td>up to 4,000 mm</td>
</tr>
</tbody>
</table>

Other dimensions on request.
Aleris Process Control (APC), one of our key elements of operational excellence, sets the basis for continuous improvement and ensures that production takes place under controlled conditions. This is essential to meet our goal to remain the reliable partner for the industry.

Certifications for the plants in Koblenz and Zhenjiang (Aerospace related):

- DIN EN ISO 9001
- EN 9100 / AS 9100
- DIN EN ISO 14001
- NADCAP – Heat Treating
- NADCAP – Non-destructive Testing

**OUR HEALTH, SAFETY AND ENVIRONMENT SYSTEM**

Our Safety and Environment Policy and Principles are implemented within our company and are also a focus of continuous improvement. Certifications include ISO 14001 for both plants in Koblenz and Zhenjiang, as well as DIN 15001 for the Koblenz plant.

**RESEARCH & DEVELOPMENT: THE BASIS FOR INNOVATION**

With focused research and development work we ensure that new products are continually introduced in order to help our customers achieve their performance targets. Aleris has concentrated its research and development work in five innovation centers in Europe, Asia and North America, with our center at the Koblenz plant specifically dedicated to the Aerospace sector.

**SUSTAINABILITY AND CLOSED LOOP RECYCLING**

At Aleris, sustainability has always been core to our business. With both the know-how and the experience to partner with customers, we are helping to drive sustainable solutions.

To reduce the need for primary aluminum as well as manufacturing waste, Aleris works with customers to create closed loop processes, in which customers send their waste back to Aleris to be recycled into new products.

Aleris can develop and test all major production and processing stages as pilot processes at the production scale.
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