

Aerospace Aluminum

Innovative Solutions



Novelis

About Novelis & Aerospace

In the Aerospace industry, Novelis specializes with its plants in Koblenz and Zhenjiang in the production of rolled aluminum plate and sheet materials for fuselage and wing structure components, capabilities incl. wing skins, ultra-thick plate, extreme wide sheet, polished sheet and cut-to-shape services.

With 60 years of experience and know-how, we serve a variety of end-use industries from our plant in Koblenz / Germany. In 1979 the Koblenz plant started with the production of Aerospace material. In 2014 our plant in Zhenjiang / China was ready to produce Aerospace material as well. Now we are among the world's leading suppliers of high-quality aluminum rolled products to the global Aerospace industry.

Novelis Inc. is driven by its purpose of shaping a sustainable world together. We are a global leader in the production of innovative aluminum products and solutions and one of the world's largest recyclers of aluminum. Our ambition is to be the leading provider of low-carbon, sustainable aluminum solutions and to achieve a fully circular economy by partnering with our suppliers, as well as our customers in the aerospace, automotive, beverage can and specialties industries throughout North America, Europe, Asia and South America. Novelis is a subsidiary of Hindalco Industries Limited, an industry leader in aluminum and copper, and the metals flagship company of the Aditya Birla Group, a multinational conglomerate based in Mumbai.



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Global presence to enable efficient supply chains

Novelis is helping our customers meet regional demand through two aerospace industry certified plants in Koblenz, Germany and Zhenjiang, China and global R&D centers in Europe and China.

Novelis 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.

Novelis' advantages and capabilities:

- 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 supply chain – local for local



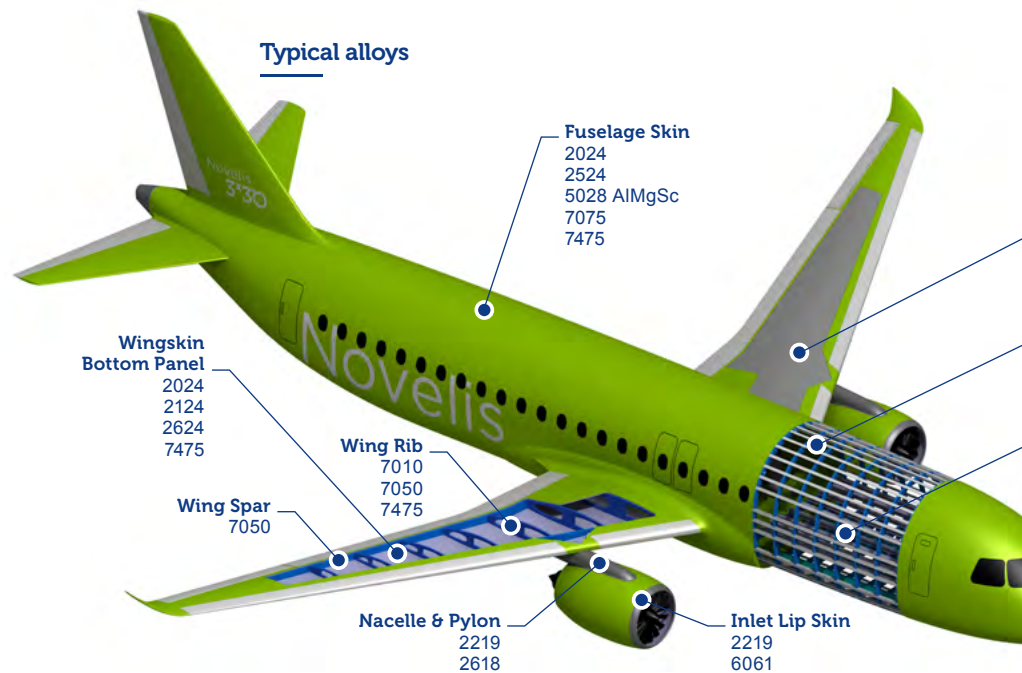
Aerospace aluminum sheet

At its plant in Koblenz, Novelis offers a wide range of sheets for the aerospace industry, covering a broad spectrum of dimensions, alloys and specifications, including wide sheets in mill finish, bare, alclad and even polished. The aluminum sheets are characterized by high formability, best chemical milling quality and 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%+ ...

2014

AMS 4029
BS 2 L.93
DMS 1580
TH 5.313

2024

- AIMS 03-02-004
- AIMS 03-02-020
- ABM 1-1005
- AIR 9048
- AMS 4035
- AMS 4037
- AMS 4041
- AMS 4462
- AMS-QQ-A-250/4
- ASN-A3011
- BS 2 L.97
- BS 2 L.98
- CMS-AL-103
- DGQT 1.1.0.0036
- DAN 422
- EN 2419
- MEP02-035
- SMS 3204
- TH 5.312
- WL 3.1354
- YS-X-9001

2024 ALCLAD

AIMS 03-04-009
AIMS 03-04-010
AIMS 03-04-011
AIMS 03-04-012
AIMS 03-04-013
AIMS 03-04-014
AIMS 03-04-037
AMS 4040
AMS 4041
AMS 4461
AMS-QQ-A-250/5
BAMS 516-026
SMS 3200
SMS 3202
TH 33.0173
YS-X-9001

2124

- AIMS 03-02-032
- AMS 4101
- AMS-QQ-A-250/29
- FMS 3002
- FMS 3008
- MMS 149
- MEP 02-029
- YS-X-9002
- YS-X-9004

2214

AIR 9048
CR 1.1.031

2219

A5-SA-121-1039
A5-SA-1331100-C-0019-MTA
AMS 4031
AMS 4295
AMS-QQ-A-250/30
DSN 1719.01
MPS/2219/S&P/01
SA-MU-42.549.04
SMS 119204
55 LV 09 003
TS-AA2219

2219 ALCLAD

AMS 4096
AMS-QQ-A-250/29
AMS 4613

2524

BMS 7-327

2524 ALCLAD

AIMS 03-04-022
AIMS 03-04-031
AMS 4296
BMS 7-316
MEP 02-019

2618

ABM 1-1006
AIMS 03-02-021
AIR 9048
ASN-A 3355
BAEM 1103
DAN 422
MEP02-020
WL 3.1924

2624

AMS 4464
BAMS 516-030

5028

AIMS 03-04-055

6061

AIR 9048
AMS 4025

- AMS 4026
- AMS 4027
- AMS-QQ-A-250/11
- DAN 422
- WL 3.3214

7010

ABM 3-1029
ABM 3-1030
AMS 4204
AMS 4205
ASN-A3098
ASN-A3101
BAEM 1213
BAEM 1218
DAN 422
DGQT 1.1.0.87
D.T.D. 5120
D.T.D. 5130
EN 2684
EN 2687
OFWN 4017
OFWN 4038
SM 9102
SMS 3206
STD 113644
TSM 42.03.66
TSM 42.03.67
TSM 42.03.71
WL 3.4394

7020

AIR 9048

7050

- A2MS 516-003
- AIMS 03-02-019
- AIMS 03-02-022
- AIMS 03-02-029
- ABM 3-1029
- ABM 3-1030
- AMS 4050
- AMS 4201
- ASNA 3048
- BAEM 1213
- BAMS 516-001
- BAMS 516-003
- BAMS 516-035
- BMS 7-323 Type I
- BMS 7-323 Type III
- CMMP 010
- DAN 26F
- DAN 422
- DGQT 1.1.0.97
- DGQT 1.1.0.0098
- DMS 2233
- DMS 2459
- DON 45
- DSN 1106
- EAC-MS-1004
- EAC-MS-MP-0162



Aerospace aluminum plate

The foundation of our aerospace plate expertise resides in Koblenz, Germany, where the plant began producing aerospace plate more than 45 years ago.

Wingskin Upper Panel

7050
7055
7150

Fuselage Frame

2024
7050
7475

Underfloor Beam

7055
7475

Front Pressure Bulkhead

7050
7175
7475

Seizing the opportunity of projected growth in demand in Asia Pacific, we inaugurated our Zhenjiang facility in 2013. Since then, our dimensional and specification capabilities were continuously extended. Novelis is operating one of the world's most powerful hot rolling mills in aluminium industry 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, Novelis 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

Thickness	up to 11.8"	up to 300 mm
Width	up to 138"	up to 3,500 mm
Length	up to 945"	up to 24,000 mm

Other dimensions on request

of today's flying demand

- EN 3982
- EN 3983
- KMB-SK2102
- MEP02-014 Std Type
- MEP02-036
- MFM 0017
- MMS 1420
- MMS 1439
- M3184
- MM3184
- MS070059E
- OFWN 4029
- OFWN 4037
- OFWN 4040
- STD 113643
- STM 0887
- TSM 42.03.69
- TSM 42.03.70
- WL 3.4144
- YS-X-9005
- YS-X-9006

7055

- A2MS 516-017
- AIMS 03-02-024
- AMS 4206
- BAMS 516-017
- BMS 7-307
- MEP 02-048

7075

- AIR 9048
- AMS 4044
- AMS 4045
- AMS 4078
- AMS 4315
- AMS-QQ-A-250/12
- AMS-QQ-A-250/24
- ASN-A3009
- BS 2 L.95
- DAN 422
- EN 2126
- MMS 159
- STD 113627
- TH 5.316/3
- TH 5.316/5
- WL 3.4364

7075 ALCLAD

- AMS 4048
- AMS 4049
- AMS-QQ-A-250/13
- AMS-QQ-A-250/25
- TH 33.0173

7150

- ABM 3-1031
- AMS 4252
- BAEM 1219
- BAMS 516-006
- DMS 2308

7175

- AIMS 03-02-008
- ASN-A3050
- CR 1.1.0.88
- DAN 26H
- DAN 422
- OFWN 4033
- SMS 003
- WL 3.4364

7475

- A2MS 516-002
- AIMS 03-02-009
- AIR 9048
- AMS 4089
- AMS 4090
- AMS 4202
- BAMS 516-002
- DAGN 45
- DAN 422
- DMS 2184
- DMS 2234
- FMS-3004
- MEP 02-013 Std. Type
- MEP 02-013 Type I
- M3188
- MM3188
- OFWN 4057
- STD 113637
- TSM 42.03.68
- WL 3.4384
- YS-X-9003
- 199-19-005

7475 ALCLAD

- AIMS 03-04-029
- AMS 4085
- DMS 2234



- Also qualified for supplies from Novelis Zhenjiang plant

- Qualified for supplies from Novelis Zhenjiang plant only



Improved buy-to-fly ratio via cut-to-shape, pre-machining and closed loop

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.

Novelis 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

X-axis	up to 1,771.70"	up to 45,000 mm
Y-axis	up to 157.5"	up to 4,000 mm

Other dimensions on request





Your reliable partner

Our Operational Excellence Processes set 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):

- ASI
- DIN EN ISO 9001
- EN 9100 / AS 9100
- ISO 14001
- Nadcap – Heat Treating (HT)
- Nadcap – Non-destructive Testing (NDT)
- Nadcap – Materials Testing Laboratories (MTL)

Our Environmental, Health and Safety management system

We have a comprehensive Environmental, Health and Safety (EHS) management system, and all of our manufacturing sites are certified to the ISO 14001 Environmental Management Standard, as well as internationally recognized health, safety and quality standards.

**Research & Technology Center:
The basis for innovation**

With focused Research & Development work we ensure that new products are continually introduced in order to help our customers achieve their performance targets. We have concentrated our R&D activities in different innovation centers around the world.

Shaping A Sustainable World Together

Sustainability is core to our business – from how we operate within our company to how we partner with our stakeholders across the aluminum value chain.

Our ambition is to be the leading provider of low-carbon, sustainable aluminum solutions and to achieve a fully circular economy by partnering with our suppliers and our customers.

The cornerstone of this ambition is to achieve net carbon neutrality by 2050 or sooner and to reduce our carbon footprint by 30 percent by 2026.



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

**Safety. Commitment.
Innovation. Forward-thinking.**

Shaping A Sustainable World Together

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#ShapingAerospace

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