

# Novelis Advanz™

## 6HF - e200

Novelis

Novelis Advanz™ 6HF - e200 is a heat treatable product specifically developed for external automotive applications with demanding high formability requirements. This product offers an excellent balance of properties: superior formability in the as-supplied temper, good in service strength and good bending. Novelis Advanz™ 6HF - e200 is recommended for body sides and decklid outers.

### Mechanical Properties

This product offers an excellent balance of properties: Superior formability in the as-supplied temper, good in service strength and good bending. All values are typical.

Temper	UTS (Rm)	YS (Rp0.2)	Total Elongation A80
T4 Delivery	≥200 MPa	≤130 MPa	≥26%
2% pre-strain + 20 min @185°C	≥240 MPa	≥200 MPa	≥18%

### Chemical Composition (wt. %)

The chemical composition of this product corresponds to AA6016.

Si	Fe	Cu	Mn	Mg	Cr
1.0 - 1.5	≤ 0.50	≤ 0.20	≤ 0.20	≤ 0.25 - 0.60	≤ 0.10
Zn	Ti	V	Others, each	Others	Other, total
≤ 0.20	≤ 0.15	N/A	≤ 0.05	N/A	N/A

### Physical Properties

Density	2.7 x 10 <sup>3</sup> kg/m <sup>3</sup>
Elastic Modulus	70,000 N/mm <sup>2</sup>
Coefficient of Thermal Expansion	23.4 x 10 <sup>-6</sup> K <sup>-1</sup>
Thermal Conductivity	160 - 190 W/mK
Electrical Conductivity	26 - 30 m/Ωmm <sup>2</sup>

### Contact Novelis

Novelis Global Automotive  
[novelis.com/automotive](http://novelis.com/automotive)

Not just aluminum, Novelis Aluminum.™



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This document is for information purposes only and may be subject to change at any time. Shipments will be made in accordance with the specifications agreed between the parties. Please contact your Novelis Sales Representative for more information. The Novelis Advanz products are part of a wider Novelis portfolio specially designed for the automotive industry.

Updated January 21, 2019

### Production Regions

Our manufacturing footprint allows us to tailor solutions for automakers around the world. Novelis Advanz™ 6HF - e200 is produced in the following locations:



Asia



Europe



North America

### What surface treatments are available?

Acid Etch  
TiZr  
PT3  
AlubVS  
RP4107  
E1

Acid Etch  
TiZr  
PT3  
AlubVS  
RP4107  
E1  
PL39SX

Acid Etch  
TiZr  
A951

Additional services may be available through our distributors, please contact your Novelis sales representative for more information.

### What finishing processes are available?

Cut-to-length  
Laser Blank

Cut-to-length  
Laser Blank  
Edge Trimming  
Slitting

Cut-to-length  
Laser Blanks  
Edge Trimming  
Slitting

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### What gauges are available?

0.9 - 1.5 mm

0.9 - 1.6 mm

0.8 - 3.5 mm

Please contact your Novelis sales representative for more information about available widths and gauges.