

Novelis Advanz™

6HF - s200

Novelis

Novelis Advanz™ 6HF - s200 is a heat treatable product specifically developed for internal 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 - s200 is recommended for door and decklid inners and other closure inner panels.

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

Contact Novelis

Novelis Global Automotive
novelis.com/automotive

Not just aluminum, Novelis Aluminum.™



© 2020 Novelis Inc. All Rights Reserved.

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 - s200 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

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

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.