

A large roll of aluminum sheet is being processed in a factory. The roll is being unspooled from a large metal spool. The background shows industrial machinery and a corrugated metal wall.

# **Pilot® Base Oils for Aluminium Rolling**



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## Pilot® 200R / Pilot® 261R

For aluminium rolling, Haltermann Carless' Pilot® Oils offer controlled viscosities and a uniform boiling range with excellent purity consistency, while providing high evaporation performance and leaving no residues during the critical post-rolling tempering process. The FDA approvals for these Pilot® Oils facilitate further clearance for the use of the foils made from them for food packaging.

Pilot® 200R is primarily used as base oil in aluminium foil rolling. It has been specifically produced with an application-optimised boiling range to provide top tier annealing performance. For heavier applications, such as sheet and ingot rolling, Pilot® 261R is recommended. Both Pilot® Oil products are deeply hydrogenated and hydro-treated materials for improved characteristics in aluminium processing.

### Benefits of Pilot® Base Oils:

- Defined viscosity
- High consistency of purity
- Boiling range uniformity
- Thermal properties optimised for aluminium rolling
- Non-staining characteristics during annealing processes

Our Pilot® Oil grades excel in a wide range of performance criteria to achieve consistently high-end performance. The products are manufactured in our state-of-the-art ISO 9001, ISO 14001 and ISO 50001 certified facilities in Europe and are supplied to global markets in bulk or as packaged goods. Haltermann Carless industry-focused technical and development teams can assist with specific application queries.

Properties	Pilot® 200R	Pilot® 261R
Kin. Viscosity at 40 °C	1.9 mm <sup>2</sup> /s	2.5 mm <sup>2</sup> /s
Density at 15 °C	810 - 830 kg/m <sup>3</sup>	
Boiling Range – IBP	220 °C	242 °C
Boiling Range – FBP	243 °C	272 °C
Flash Point, min.	88 °C	104 °C
Pour Point, max.	-30 °C	-20 °C
VOC	45 %	0 %
FDA 21 CFR	178.362 B	

Listed Product data are typical values and may vary according to specification requirements.

[www.haltermann-carless.com](http://www.haltermann-carless.com)

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