



Pilot® Base Oils

Low-viscosity Base Oils for various applications

Pilot® Base Oils

Haltermann Carless – your reliable manufacturer and supplier of high performance, low viscosity base oils.

Haltermann Carless offers a broad range of high performance, straight-cut, low viscosity base oils. They are used in a wide variety of industrial applications and formulations, ranging from speciality lubricants and hydraulic fluids to silicone sealants, metalworking fluids, surface treatments, textiles and water treatment. Their purity in composition and the variety of boiling ranges they come in allows customers to select tailored options for their operational parameters and priorities.

The deeply hydrotreated, low-aromatic Pilot® H Oils support a safe working environment for operators. The products are manufactured in our state-of-the-art ISO 9001, ISO 14001 and ISO 50001 certified production facility 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.

Benefits of Pilot® Base Oils:

- High purity
- Defined viscosities
- Narrow boiling ranges
- Application-specific flash points
- High UV and storage stability
- Low odour
- Excellent additive compatibility
- Compliance with a range of FDA classes

Applications

Due to the wide range of possible uses and our extensive product range, please contact Haltermann Carless for technical advice on selecting the most appropriate product for your application.



Typical Properties of Pilot® Oils

Properties	Low Aromatic Grades							
	Method	Pilot® 200H	Pilot® 250H	Pilot® 275H	Pilot® 300H	Pilot® 400H	Pilot® 500H	Pilot® 900
Appearance	Visual	Clear & colourless						
Colour (Saybolt)	ASTM D 156	30						
Boiling Range – IBP	ASTM D86	220 °C	235 °C	250 °C	260 °C	280 °C	280 °C	300 °C
Boiling Range – FBP	ASTM D86	243 °C	275 °C	295 °C	320 °C	320 °C	360 °C	350 °C
Density at 15 °C	EN ISO 12185	820 kg/m³	820 kg/m³	820 kg/m³	820 kg/m³	820 kg/m³	820 kg/m³	840 - 860 kg/m³
Flash Point (PM)	EN ISO 2719	min. 88 °C	min. 100 °C	min. 110 °C	min. 110 °C	min. 130 °C	min. 130 °C	min. 160 °C
Kin. Viscosity at 40 °C	DIN 53015	1.9 mm²/s	2.5 mm²/s	3.0 mm²/s	4.0 mm²/s	4.5 mm²/s	5.5 mm²/s	8.5 mm²/s
Aromatics (UV)	HM-14-Labor	max. 1000 ppm						
Pour Point	DIN ISO 3016	–	-30 °C	-20 °C	-20 °C	-10 °C	-5 °C	-35 °C
CAS. No.	–	64742-47-8	64741-91-9 64742-46-7 64742-47-8	64741-91-9 64742-46-7 64742-47-8	64741-91-9 64742-46-7	64741-91-9 64742-46-7	64741-91-9 64742-46-7	1174522-19-0
EC Number	–	926-141-6	927-632-8	927-632-8	919-029-3	919-029-3	919-029-3	919-029-3

Properties	Medium Aromatic Grades		
	Method	Pilot® 140	Pilot® 295 SR
Appearance	Visual	Clear & colourless	
Colour (Saybolt)	ASTM D 156	24	–
Boiling Range – IBP	ASTM D86	260 °C	256 °C
Boiling Range – FBP	ASTM D86	330 °C	296 °C
Density at 15 °C	EN ISO 12185	816 kg/m³	818 kg/m³
Flash Point (PM)	EN ISO 2719	min. 120 °C	min. 118 °C
Kin. Viscosity at 40 °C	DIN 53015	4.32 mm²/s	3.0 mm²/s
Aromatics (UV)	HM-14-Labor	5.4% v	9% v
Pour Point	DIN ISO 3016	max. -6 °C	max. -33 °C
CAS. No.	–	64742-80-9	64742-80-9
EC Number	–	919-006-8	920-360-0

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

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