

# HOUGHTON CHEMICAL CORPORATION

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## Pah|nol® Extended Life Antifreeze Product Data Sheet

### Inhibited Ethylene Glycol-based Antifreeze Coolant

This product is formulated with the latest organic acid technology (OAT) to create a high quality extended life ethylene glycol antifreeze/coolant for newer model cars and light duty trucks. Its special blend of long-lasting inhibitors is designed to protect all engine cooling systems for a minimum of five years or 150,000, when used as directed.

For health and safety information for this product, contact Houghton for a Safety Data Sheet (SDS).

### Pah|nol® Extended Life Antifreeze Typical Properties by Concentration

Properties <sup>1</sup>	Conc.	50%
Ethylene Glycol	93%	46%
Performance Additives and Water	7%	54%
Appearance	Liquid, Clear, Orange	Liquid, Clear, Orange
Specific Gravity (15/15°C 60/60°F)	1.120 - 1.140	1.060 - 1.090
pH 50% glycol	7.5 - 9.0	7.5 - 9.0
Reserve Alkalinity (min)	3	1
Freeze Point Max	-34°F / -37°C (as 50%)	-34°F / -37°C

<sup>1</sup>Concentrate based on volume of Ethylene Glycol, mixtures based on volume of Pah|nol® Extended Life Antifreeze

Use Recommendation: For long life and best corrosion protection, a 50% Pah|nol® Extended Life solution is recommended. Water quality can be an important factor affecting the long-term corrosion protection of any antifreeze. Use only water of good quality (see ASTM D3306, General Requirements for water quality). This provides freezing protection to -34°F, and boil-over protection to +265°F, using a 15 pound pressure radiator cap. For HVAC systems, recreational vehicles, and protection of other Hydronic systems, please consult the heat transfer fluids section of our website or call us for suggestions.

Formulated to Satisfy: ASTM D3306, ASTM D4985, SAE J1034, SAE J1941 and Federal Specification OA548D; satisfies both hot surface aluminum protection requirements of ASTM test D4340, and Cummins heavy duty low silicate requirements, and is compatible GM 6277M DEX Cool.

Cautionary Information: Ethylene glycol, the major component of Pah|nol® Extended Life, is poisonous to humans and animals when ingested. Store only in closed containers with complete cautionary information thereon, in a cool, secure place, out of reach of children. Do not use in any system connected with potable water. Ask us about other Houghton Chemical Corporation products specifically designed for this purpose.

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