



**Product Name:** KÜHL G12 Coolant & Anti-Freeze (Pink / Red)

**Application:** Designed for modern engine cooling systems requiring G12 OAT coolant technology.

## Product Overview

KÜHL G12 is a premium, long-life radiator coolant and anti-freeze based on high-purity monoethylene glycol and stabilized **Organic Acid Technology (OAT)** inhibitors. It provides extended corrosion protection for up to 5 years or 250,000 km, especially for high-performance aluminum and alloy engine components. KÜHL G12 is completely **silicate-, phosphate-, nitrite-, borate-, and amine-free**, ensuring maximum performance and compatibility with modern engine materials.

## Application

- KÜHL G12 is recommended for use in cooling systems of modern gasoline and diesel engines, especially those in European and Asian vehicles equipped with aluminum-based components.
- For modern aluminum and alloy engines requiring G12-type OAT coolant

## Performance Benefits

- Extended service life (up to 5 years / 250,000 km)
- Excellent protection for aluminum and light alloys
- Free from silicates and phosphates – prevents scale and gel formation
- High boiling point and stable pH control
- Low toxicity and environmentally friendly formulation
- Compatible with elastomers and seals used in OEM cooling systems.

## Meets and Approvals

- VW TL 774-D / TL 774-F (G12 / G12+)
- MB 325.3
- MAN 324 SNF
- Ford WSS-M97B44-D
- GM 6277M
- Renault 41-01-001 / Q Type D
- ASTM D3306 / D4985
- SAE J1034
- BS 6580:2010

## Typical Properties

Property	Method	Typical Value
Appearance	Visual	Clear Pink or Red Liquid
Odor	Mild, sweet	—
Density @ 20°C	ASTM D1122	1.120 – 1.130 g/cm <sup>3</sup>
pH (33% solution)	ASTM D1287	7.5 – 8.5





<b>Boiling Point (undiluted)</b>	ASTM D1120	≥ 165°C
<b>Freezing Point (50:50 dilution)</b>	ASTM D1177	-36°C
<b>Reserve Alkalinity (RA)</b>	ASTM D1121	≥ 6.0 mL
<b>Ash Content</b>	ASTM D1119	≤ 5.0%
<b>Water Content</b>	ASTM D1123	≤ 5.0%
<b>Foam Test (ml / sec)</b>	ASTM D1881	< 50 ml / < 5 sec
<b>Hard Water Stability</b>	ASTM D1126	Pass
<b>Corrosion Protection (Glassware)</b>	ASTM D1384	Pass
<b>Cavitation Protection (Aluminum Pump)</b>	ASTM D2809	8+ rating

## Dilution Chart

Coolant : Water	Freeze Protection	Boiling Point
33:67	-18°C	~104°C
50:50	-36°C	~107°C
60:40	-52°C	~110°C

**Note: Use only deionized or distilled water. Do not exceed 70% concentration.**

## Storage and Handling

- Store in closed containers at temperatures between 5°C – 35°C
- Protect from frost, heat, and direct sunlight
- Shelf Life: **5 Years** in sealed original container
- Avoid contact with skin and eyes
- Keep out of reach of children.

