

## KÜHLER G12 COOLANT & ANTI-FREEZE (PINK / RED)

### Product Description

**KÜHLER G12 Coolant & Anti-Freeze (Pink / Red)** 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. Petrovöll G12 is completely silicate-, phosphate-, nitrite-, borate-, and amine-free, ensuring maximum performance and compatibility with modern engine materials.

### Product Features & 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

### Application

Petrovöll KÜHLER 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.

Application in One Line:

For modern aluminum and alloy engines requiring G12-type OAT coolant.

### Meets or Exceeds

Petrovöll KÜHLER G12 meets or exceeds:

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



## Dilution & Mixing

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

**Note:** Do not use more than 70% concentrate. Use demineralized or distilled water only.

## Storage & Handling

- Store in original, sealed containers in a cool, dry place
- Shelf life: 5 years (if unopened and properly stored)
- Avoid freezing and direct sunlight

### Supplied as:

- **Concentrate:** 50:50 Ready-Mix (Premixed with deionized water)

## Health & Safety

Refer to Safety Data Sheet (SDS) for complete handling and disposal instructions. Keep out of reach of children. Avoid discharge into drains or the environment.

