

## KÜHLER G11 COOLANT & ANTI-FREEZE (GREEN / BLUE)

### Product Description

**KÜHLER G11 - Coolant & Anti-Freeze (Green / Blue)** is a high-quality, ethylene glycol-based radiator coolant formulated with Inorganic Additive Technology (IAT). It offers reliable long-term protection against freezing, overheating, corrosion, and scaling in cooling systems. G11 is particularly recommended for older-generation engines that use cast iron, copper, and aluminum components. The formulation is free from nitrites, amines, and phosphates (NAP-free), ensuring compatibility with European and Asian vehicle cooling systems.

### Product Features & Benefits

- Excellent corrosion protection for aluminum, copper, brass, and cast iron components
- High boiling point and freeze protection for year-round performance
- Effective against scale and deposits, improving heat exchange efficiency
- Long service life – up to 3 years or 100,000 km
- Low-foam, stable formulation for high-speed and heavy-duty circulation systems
- Mixable with other G11 (TL 774-C) coolants

### Application

Petrovöll KÜHLER G11 is suitable for use in gasoline and diesel internal combustion engines where G11-type (TL 774-C) coolants are specified. Application in one line: For older-generation engines requiring G11 IAT coolant protection.

### Meets or Exceeds

Petrovöll KÜHLER G11 meets the performance standards of:

- VW TL 774-C (G11)
- MAN 324 NF
- Mercedes-Benz MB 325.0
- Porsche TL 774-C
- Opel QL130100
- SAE J1034 / ASTM D3306 / BS 6580:2010

### Typical Properties

Property	Method	Unit
Appearance	Visual	Clear Green or Blue
Density @ 20°C	ASTM D1122	1.120 - 1.130 g/cm <sup>3</sup>
pH (33% vol in water)	ASTM D1287	7.8 - 8.5
Boiling Point (undiluted)	ASTM D1120	≥ 165°C
Freezing Point (50:50 diluted)	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
Compatibility with Hard Water	ASTM D1126	Pass
Corrosion Test (Glassware)	ASTM D1384	Pass (No weight loss)
Cavitation Test (Simulated)	ASTM D2809	8+ rating



## Dilution & Mixing

Dilution Ratio	Freeze Protection	Boiling Point (approx.)
33% Coolant	-18°C	~104°C
50% Coolant	-36°C	~107°C
60% Coolant	-52°C	~110°C

**Note:** Do not exceed 70% concentration. For best results, mix only with G11-compatible coolants.

## Storage & Handling

- Store in a cool, dry, well-ventilated area
- Protect from frost and direct sunlight
- Shelf life: 5 years (unopened container)
- Avoid contact with skin and eyes – refer to SDS

## 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.

