



# TOTAL COOLELF G13

Ready-to-use coolant • LOBRID



## DESCRIPTION

**TOTAL COOLELF G13** is very long life coolant based on high purity monoethylene glycol. It is a lobrid product, which means it is formulated with a backbone of organic inhibitors in combination with mineral inhibitors (silicate).

**TOTAL COOLELF G13** meets the requirements of VWTL774J (G13) and has successfully passed all stringent VW lab, fleet and performance test.

**TOTAL COOLELF G13** contains a bittering agent to give it a bitter taste as a guarantee against accidental ingestion by children or users.

## SPECIFICATIONS

**TOTAL COOLELF G13** is **officially approved** by the following manufacturers:

- VW TL744J (G13)

## CHARACTERISTICS

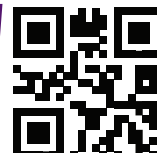
APPEARANCE	-	VISUAL	CLEAR LIQUID
COLOUR	-	VISUAL	LIGHT RED
DENSITY AT 20°C	KG/L	ASTM D1122	1.081
RA	ML HCL 0.1N	ASTM D1121	2.8
PH AT 20°C	-	ASTM D1287	8.5
FREEZING POINT	°C	ASTM D1177	-37

The typical characteristics mentioned represent mean values

### TOTAL LUBRIFIANTS

Immeuble Spazio  
562, avenue du Parc de l'île  
92029 Nanterre cedex  
France

**TOTAL COOLELF G13**  
Sheet updated: 02/16



This coolant used in accordance with our recommendations and for the application for which it is intended does not represent a special hazard. A safety data file conforming to the requirements of current EC legislation is available from your local trade consultant.



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## APPLICATIONS

- PROTECTION ALL YEAR ROUND** **TOTAL COOLELF G13**, ensures maximum protection against freezing, until  $-37^{\circ}\text{C}$ .
- READY TO USE PRODUCT** **TOTAL COOLELF G13** is ready for use, as a mix with demineralised water.
- LIFETIME** Recommended oil change interval : It is recommended that the coolant fluid should be replaced every four years.
- RETRO-APPLICABILITY** **TOTAL COOLELF G13** is stringently VW TL 774-G approved, and can be used on vehicles requiring VW TL 774-C, 774-D, 774-F, and 774-J approvals.

## CUSTOMER BENEFITS

- LONG-TERM PROTECTION** Long life protection against all types of corrosion thanks to a particular combination of organic inhibitors.
- METALS PROTECTION** Long-term stability as a result of high performance silicate stabilizer which prevents gel-formation.  
High-performance additives used allow to protect all metals including aluminum and ferrous alloys.  
Environmentally friendly due to the absence of borate, nitrite, amines and phosphates.

## PERFORMANCES

### VW MODIFIED ASTM D1384 GLASSWARE CORROSION TEST (88°C)

	WEIGHT LOSS (G/M <sup>2</sup> )					
	Copper	Solder	Brass	Steel	Cast iron	Aluminium
TL774J(MAX.)	≤3	≤3	≤3	≤3	≤3	≤2
<b>TOTAL COOLELF G13</b>	<b>0.3</b>	<b>0.7</b>	<b>0.2</b>	<b>-0.7</b>	<b>-0.1</b>	<b>0.1</b>

### VW MODIFIED ASTM D4340 ALUMINIUM HEAT REJECTION TEST, 40% FVV WATER

	WEIGHT LOSS (G/M <sup>2</sup> )	
	Before chemical treatment	After chemical treatment
<b>TOTAL COOLELF G13</b>	<b>-0,2</b>	<b>-0,2</b>

### VW MODIFIED DYNAMIC HEAT TRANSFERT TEST, 40% TAP WATER (20°dH)

	WEIGHT LOSS (G/M <sup>2</sup> )		
	Weight gain (mg)	pH Before	pH After
<b>TOTAL COOLELF G13</b>	<b>28</b>	<b>8.2</b>	<b>8.2</b>

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