



## PRODUCT DATA SHEET

# EarthCare Glycol E

### Product description

**EarthCare Glycol E** is a monoethylene glycol that offers a wide range of applications and provides long-lasting protection, reduced viscosity, increased heat capacity and thermal conductivity below the freezing point. The added inhibitor contains no substances classified as CMR, and the product is nitrite, amine, phosphate, borax and silicate free. The inhibitor provides excellent protection for aluminium, copper, alloys, iron and other metals. The additives used also inhibit foaming and the growth of microorganisms. **EarthCare Glycol E** is based on recycled glycol, offering an environmental advantage in terms of CO<sub>2</sub> emission reduction compared to monoethylene glycols not produced from recycled raw material, which has been evaluated and established by RISE. **EarthCare Glycol E is listed by both Byggarubedömmingen and Sunda Hus and is available in standard concentrations of 30%, 40% as well as concentrate. EarthCare Glycol E can also be ordered in unique customized concentrations as well as with customer-specific delivery options. EarthCare Glycol E is uncolored, as color additives are not environmentally friendly.** After use, **EarthCare Glycol E** is sent to Recyctec AB to enable further reuse or as hazardous waste for recycling.

## Area of application

This product is designed to be used for all building and process applications such as closed cooling and heat recovery systems, solar collectors, hot and cold loops and industrial process cooling.



Conc	Can 25 L	Barrel 208 L	IBC 1000 L
30%	Item no.: E30311	Item no.: E30211	Item no.: E30111
40%	Item no.: E40311	Item no.: E40211	Item no.: E40111
Conc	Item no.: E99311	Item no.: E99211	Item no.: E99111

## Properties

Parameter	Unit	Value	Method
Color		Uncolored	
Density (20°C)	g/cm <sup>3</sup>	1,10 – 1,13	ISO 12185
Boiling point	°C	> 150	ASTM D1120
Flashpoint	°C	> 100	ASTM D93
pH (50% vol. in water)		7-9	ASTM D1121

## Freezing points

EarthCare vol% glycol	Freezing point -°C)	Method
30%	-16	ASTM D1177
35%	-19	ASTM D1177
40%	-27	ASTM D1177
45%	-29	ASTM D1177
50%	-36	ASTM D1177

## Saturation properties EarthCare Glycol E

30% volume concentration

Temperature °C	Specific Heat kJ (kg) (K)	Density kg/m <sup>3</sup>	Thermal conductivity W/mK	Viscosity mPa.s
0	3,680	1,053	0,468	4,899
30	3,730	1,039	0,488	2,031
60	3,800	1,026	0,499	1,057
100	3,880	1,006	0,506	0,566
130	3,960	0,997	0,501	0,417
160	4,050	0,985	0,490	0,328

## Saturation properties EarthCare Glycol E

40% volume concentration

Temperature °C	Specific Heat kJ (kg) (K)	Density kg/m <sup>3</sup>	Thermal conductivity W/mK	Viscosity mPa.s
0	3,680	1,070	0,443	7,332
30	3,730	1,054	0,451	2,975
60	3,800	1,036	0,459	1,507
100	3,880	1,023	0,469	0,718
130	3,960	1,011	0,452	0,518
160	4,050	1,000	0,439	0,401

## Storage

The product should be stored in a tightly sealed original container in a dry and cool place away from direct sunlight.

Features and functions stated in this product data sheet are to be understood as typical values and not as specifications.



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