

# Master ECO-40PRO™

## PRODUCT SPECIFICATION Technical Data Sheet

01.2024

**Trade name:** Master ECO-40PRO™ Coolant for heating systems

**Product properties:**

**Product type:** Ready to use

**Freezing point:** -40°C

**Main substance content:** propylene glycol not less than 53% by weight

**Inhibitor:** yes, ASTM D3306 standard

**Boiling Point: (°C):** 107°C

**Density at 20°C:** 1.046 g/cm<sup>3</sup>

**Recommended storage temperature minimum:** 0 C **maximum:** 30 C

**Country of origin:** Estonia

**Service life:** at least 7 years and depends on operating rules

**Shelf life:** 36 months.

**Packaging:** 5 lit, 25 lit, 200 lit, 1000 lit

**Article:** ECO-40PRO57-55-6

**EXP date:** 01.2031

High-quality coolant based on propylene glycol, with the addition of innovative, depletion-resistant corrosion inhibitors. Master ECO-40PRO™ is non-toxic and completely environmentally friendly; it can be used in heating systems of both public and residential buildings. Suitable for use in the food and pharmaceutical industries.

Our product is non-aggressive to plastic, textiles, rubber, and other materials.

The prepared propylene glycol solution is completely fireproof and its use eliminates the possibility of explosion.

### Master ECO-40PRO™ Thermophysical properties of 53% aqueous solution of propylene glycol, crystallization temperature minus - 40°C

Solution temperature, t°C	Density, kg/m <sup>3</sup>	Heat capacity, Average, kJ/(kg*K)	Thermal conductivity, W/(m*K)	Dynamic viscosity, *10 <sup>-3</sup> [N*s/m <sup>2</sup> ]	Kinematic viscosity, *10 <sup>-6</sup> [(m <sup>2</sup> /s)]
-40°C	1069	3.15	0.373	212.0	215
-30°C	1068	3.22	0.374	180.5	180
-20°C	1066	3.26	0.376	83.3	80
-10°C	1052	3.29	0.375	39.74	40
0°C	1058	3.33	0.375	22.67	23
20°C	1046	3.39	0.374	7.534	8
40°C	1038	3.46	0.378	3.025	3
60°C	1021	3.53	0.384	1.814	1.9
80°C	1014	3.59	0.385	1.21	1.3
100°C	992	3.66	0.390	0.843	0.85