Master ECO-50PRO™

PRODUCT SPECIFICATION Technical Data Sheet

01.2024

Trade name: **Master ECO-50PRO™ Coolant for heating systems**

Product properties:
Product type: Ready to use
Freezing point: -50°C
Main substance content: propylene glycol not less than 60% by weight
Inhibitor: yes, ASTM D3306 standard
Boiling Point: (°C): 107°C
Density at 20°C: 1.047 g/cm3
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-50PRO57-55-6

EXP date: 01.2031

High-quality coolant based on propylene glycol, with the addition of innovative, depletion-resistant corrosion inhibitors.
Master ECO-50PRO™ 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-50PRO™ Thermophysical properties of 60% aqueous solution of propylene glycol, crystallization temperature minus - 50°C

Solution temperature, t°C	Density, kg/m**3	Heat capacity, Average, kJ/(kg*K)	Thermal conductivity, W/(m*K)	Dynamic viscosity, *10-3[N*s/m**2]	Kinematic viscosity, *10-6[(m**2/s]
-50°C	1071	Not Tested	Not Tested	Not Tested	Not Tested
-40°C	1070	3.12	0.353	243.0	245
-30°C	1069	3.20	0.354	195.5	196
-20°C	1067	3.24	0.355	92.3	93
-10°C	1054	3.27	0.324	41,2	42
0°C	1059	3.30	0.355	24.3	25
20°C	1047	3.36	0.353	8.2	9
40°C	1039	3.44	0.357	3.87	4
60°C	1023	3.51	0.363	1.886	1.9
80°C	1017	3.57	0.364	1.38	1.4
100°C	998	3.64	0.370	0.874	0.88

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