

Tyfocor® L “G” Propylene Glycol Based Solar Fluid

Engineering Submittal Sheet

Engineering Specifications (Part Number: 8718571374)

The heat transfer fluid in the solar thermal system shall be Tyfocor L “G”, and shall be premixed in 5.28 gallon (20 liter) drums at a ratio of 47% PP-Glycol and 53% distilled water.

The heat transfer fluid shall be a non-toxic, virtually odor-less, hygroscopic liquid consisting of food grade propylene glycol, food grade dipotassium phosphate, and deionized water.

Fluid specification shall meet the following tables.

Properties of Tyfocor® L “G” Concentrate	
Appearance	Clear, colorless
Boiling Point	> 160°C / 320°F
Pour Point	-60°C / -76°F
Density (20°C/ 68°F)	1050 - 1055 kg.m ³
Refractive index nD20	1.430 - 1.435
ph (20°C/ 68°F) 50% vol.	9.0 - 10.0
Water Content	< 3% w/w
Reserve Alkalinity	10 - 13 ml 0.1 m HCl

Note: Above data represent average values that were valid at the time when this document went into print, and cannot be construed as specifications. Product specifications are available on request.

Tyfocor® L “G” / Water Mixture Values			
Tyfocor® L “G” Concentrate [Vol %]	Density (20°C) [g/cm ³ (lb/ft ³)]	Refractive Index (20°C)	Frost Protection [°C (°F)]
10	1.008 (62.93)	1.3441	-4.1 (24.6)
20	1.018 (63.55)	1.3557	-10.6 (12.9)
30	1.028 (64.18)	1.3673	-19.3 (-2.7)
40	1.038 (64.80)	1.3788	-27.8 (-18.0)
42	1.039 (64.86)	1.3810	-30.0 (-22.0)
50	1.045 (65.24)	1.3897	-45.0 (-49.0)
60	1.050 (65.55)	1.3998	<-50 (<-58)

Note: Above table displays typical values which are not to be regarded as specifications. Bosch does not guarantee results from use of this data, nor gives any warranty, express or implied. For additional safety information, please refer to MSDS.

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