

Data sheet

The advanced low viscosity non-toxic heat transfer fluid engineered for higher efficiency and safer cooling. This document lists the physical data important for the use of COREFROST ALV PLUS in closed loop cooling systems.

Volume ratio, freezing point and refractive index

%v/v	Freezing Point (°C)	Refractive Index
27	-10	1.3649
35	-15	1.3741
39	-17.5	1.3783
42	-20	1.3819
55	-30	1.3952
65	-40	1.4067

Kinematic viscosity (mm²/s) of dilutions with temperature

T (°C)	Dilution %v/v					
	27%	35%	39%	42%	55%	65%
20	1.723	2.086	2.302	2.520	3.629	5.520
15	1.964	2.392	2.649	2.907	4.239	6.561
10	2.263	2.774	3.083	3.392	5.017	7.913
5	2.639	3.258	3.637	4.011	6.023	9.703
0	3.119	3.883	4.354	4.815	7.353	12.13
-5	3.744	4.702	5.301	5.877	9.148	15.48
-10	-	5.798	6.577	7.308	11.63	20.26
-15	-	-	8.330	9.274	15.16	27.26
-20	-	-	-	-	20.30	37.88
-25	-	-	-	-	28.00	54.58
-30	-	-	-	-	-	81.96
-35	-	-	-	-	-	129.5

Density (g/cm³) of dilutions with temperature

T (°C)	Dilution %v/v					
	27%	35%	39%	42%	55%	65%
20	1.101	1.132	1.146	1.158	1.201	1.240
15	1.103	1.134	1.148	1.161	1.204	1.242
10	1.105	1.136	1.150	1.163	1.206	1.245
5	1.107	1.138	1.152	1.165	1.209	1.248
0	1.108	1.140	1.154	1.167	1.211	1.250
-5	1.110	1.142	1.156	1.169	1.214	1.253
-10	-	1.144	1.158	1.171	1.216	1.255
-15	-	-	1.159	1.173	1.218	1.258
-20	-	-	-	-	1.220	1.260
-25	-	-	-	-	1.222	1.263
-30	-	-	-	-	-	1.265
-35	-	-	-	-	-	1.267

Dynamic viscosity (mPa.s) of dilutions with temperature

T (°C)	Dilution %v/v					
	27%	35%	39%	42%	55%	65%
20	1.898	2.361	2.638	2.918	4.359	6.844
15	2.167	2.713	3.042	3.373	5.104	8.152
10	2.500	3.151	3.548	3.944	6.052	9.853
5	2.920	3.708	4.192	4.672	7.281	12.11
0	3.457	4.425	5.028	5.617	8.906	15.16
-5	4.154	5.366	6.133	6.867	11.10	19.40
-10	-	6.624	7.622	8.552	14.14	25.43
-15	-	-	9.668	10.87	18.46	34.29
-20	-	-	-	-	24.78	47.74
-25	-	-	-	-	34.21	68.90
-30	-	-	-	-	-	103.7
-35	-	-	-	-	-	164.0

