



Speciality Fluids Division

## Technical Service Bulletin

### Using Kilfrost LV Fluids with MEG and MPG refractometers

Providing continuous technical support, Kilfrost have created a conversion table for customers who use a refractometer displaying MEG or MPG volume concentrations. Customers who use a standard refractometer should continue to use Refractive Index (RI) values.

#### Kilfrost Geo % v/v

	<i>Freezing Point (°C)</i>	<i>Refractive Index</i>	<i>Equivalent Vol% on MEG Refractometer</i>	<i>Equivalent Vol% on MPG refractometer</i>
25	-10	1.3638	27.8	26.1
30	-15	1.3681	31.8	29.9
35	-17	1.3741	37.5	35.3
40	-20	1.3796	42.7	40.2
50	-30	1.3915	53.9	50.9

#### Kilfrost ALV and ALV Plus % v/v

	<i>Freezing Point (°C)</i>	<i>Refractive Index</i>	<i>Equivalent Vol% on MEG Refractometer</i>	<i>Equivalent Vol% on MPG refractometer</i>
25	-10	1.3632	27.2	25.5
30	-15	1.3679	31.6	29.7
35	-17	1.3731	36.5	34.4
40	-20	1.3794	42.5	40.0
50	-30	1.3905	52.9	50.0
60	-40	1.4031	64.8	61.3

#### Kilfrost GLV % v/v

	<i>Freezing Point (°C)</i>	<i>Refractive Index</i>	<i>Equivalent Vol% on MEG Refractometer</i>	<i>Equivalent Vol% on MPG refractometer</i>
30	-10	1.3704	34.0	32.0
35	-15	1.3751	38.4	36.2
40	-20	1.3828	45.7	43.1
50	-30	1.3933	55.6	52.5

*E.g. for 35 vol% dilution of ALV (-17 °C freeze point), this should read as 36.5 vol% on a MEG refractometer or 34.4 vol% on a MPG refractometer.*

If you have any questions regards any of the information provided in this technical bulletin, please contact the Kilfrost technical team on (01434) 320332.