



Using a Coolant Refractometer to measure coolant system dilution

What is a Refractometer used for?

A coolant refractometer is used to measure the freeze point of ethylene or propylene glycol based coolants including Delo XLC.

Refractometer Key Components

- 1 Daylight Plate (also known as Prism Cover)
- 4 Mirror Tube

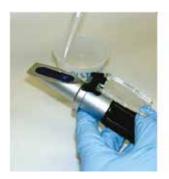
2 - Prism

5 - Eyepiece

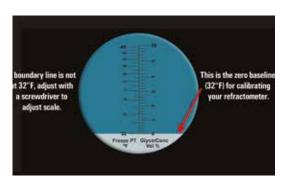
3 - Zero Adjustment Screw

How to Calibrate a Refractometer

- Step 1 Place 2 to 3 drops of distilled water on prism surface and press cover down lightly.
- Step 2 Aim refractometer in direction of light and look through the unit eyepiece. Adjust eyepiece ring until the correct focus is obtained. Observe the light/dark boundary and ensure it coincides with the zero baseline (32°F/0°C for distilled water).
- Step 3 If not at zero baseline, use the screwdriver supplied in the kit to adjust. Turn the scale adjustment screw until the light/dark boundary coincides with zero baseline (32°F/0°C).











How to measure Delo® XLC

- Step 1 Take coolant sample from truck radiator.
- Step 2 Place 2 to 3 drops of coolant to be tested onto prism surface and press cover down lightly.
- Step 3 Aim refractometer in direction of light and look through the unit eyepiece. Record the reading. For Delo® XLC read the scale directly for either glycol vol% or freezing point °F/ °C.





If coolant is outside the freeze point range of -20°F (-29°C) to -60°F (-51°C) utilize the conversion charts below to take corrective action based on whether the system is OVER concentrated with coolant or UNDER concentrated with coolant.

