

Coolant Test Kit Refractometer Use 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.

Refractometer Key Components

- 1 - Daylight Plate (also known as Prism Cover)
- 2 - Prism
- 3 - Zero Adjustment Screw
- 4 - Mirror Tube
- 5 - Eyepiece



How to Calibrate the Refractometer

STEP 1

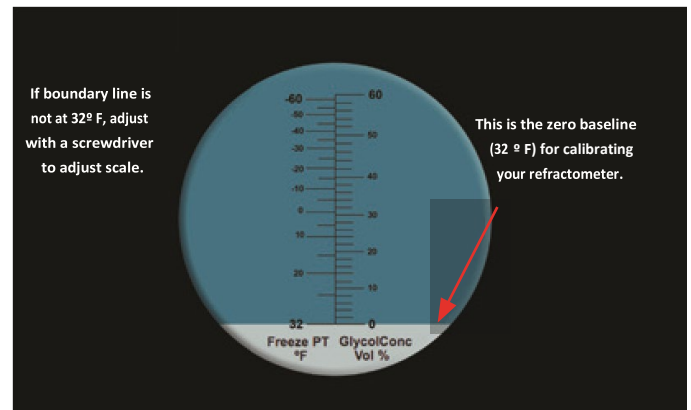
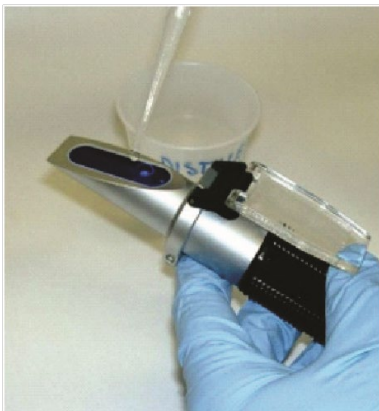
Place 2 to 3 drops of distilled water on prism surface and press cover down lightly.

STEP 2

Aim refractometer to 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 zero baseline (32°F (0°C)).



How to Measure DELO ELC | XLC Concentration

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 ELC or XLC, read the scale directly for freeze point °F.



If coolant is outside the freeze point range of -20°F (-29°C) to -50°F (-45°C), click image below to use the coolant freeze point calculator to take corrective action based on whether the system is UNDER concentrated with water or OVER concentrated with coolant.

Calculate your concentration

Enter the information below to calculate your antifreeze concentration percentage.

VOLUME

10 gal

TEMPERATURE

20 °F

REFILL PRODUCT

Concentrate

50/50 premix

imperial | metric

16 %
current
concentration

Drain 8.00 gal

from your coolant reservoir and replace it with antifreeze to achieve a 50% concentration.

RESET