

REFRACTOMETER



513829-01

GENERAL DESCRIPTION

A Refractometer is an easy to use laboratory or field device used to measure the concentration of the Hydrophilic Remover ZR-10E in water and is required to meet Pratt and Whitney and GE concentration specifications for hydrophilic removers. The measuring range of a Refractometer is 0-32% Brix with a resolution of 0.20%.

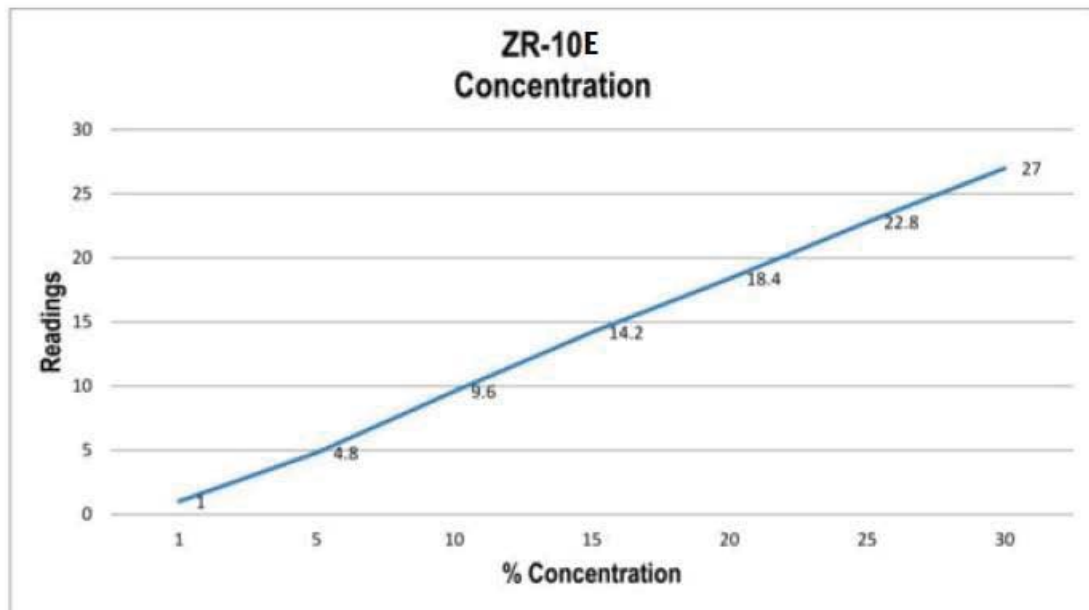
OPERATION

1. Aim the front end of the refractometer in the direction of a bright light and adjust the focusing ring until the scale can be seen clearly.
2. ZERO ADJUSTMENT. Remove the black rubber cap from the adjustment screw on the top of the Refractometer. Lift the cover plate and place 1-2 drops of distilled water on the prism. Close the cover plate and press lightly. Adjust the screw to make the light/dark boundary coincide with the zero line. Zero adjustment should be made at 20°C (68°F) for accurate temperature compensation. After adjustment, replace the black rubber cap.
3. MEASUREMENT. Lift the cover plate and clean the surface of the prism using a soft cloth. Place 1-2 drops of the solution to be measured on the prism. Close the cover plate and press lightly. The position of the light/dark boundary on the scale will indicate the reading in % Brix. See chart below for conversion from % Brix to % ZR-10E Concentration.
4. After measurement, clean the surface of the prism with a soft cloth.

MAINTENANCE

1. Do not wash or submerge the Refractometer in water while cleaning. This will prevent liquid from entering the body of the instrument.
2. The Refractometer is an optical instrument. Handle gently and take care not to scratch the prism or lenses. It is recommended to store the Refractometer in its hard case when not in use.

3. This Refractometer is designed with automatic temperature compensation. Zero adjustments should be made at the reference temperature of 20°C (68°F) for proper compensation. No other adjustments are necessary.



SPECIFICATIONS COMPLIANCE

ASTM E1417/E1417M-13 (Sections 7.8.2.3 & 7.8.2.6)

AMS 2647D (Sections 4.5.1.2 & 4.5.2.1)

BPVC (Section V, Article 6: T-673.2(b))BPVC (Section V, Article 6: T-672)