Operation Manual for Westover Model RHB-18

Hand Held Brix Refractometer

Range: Minimum Division: Accuracy: Dimensions: Weight: 0-18° 0.2° 0.1° 27 x 40 160mm 176 grams





Basic Operation





For Use with Industrial Fluids

The example below is based on using the refractometer with cutting and grinding fluids. The basic principles can be applied to any number of single solid solutions. For more information, contact your dealer.

- Prepare a "Gold Standard" solution by carefully diluting a small volume of lubricant using an accurate measuring 1) cup or graduated cylinder. (e.g. if the manufacturer recommends a 10:1 ratio, pour 10 ounces of water and 1 ounce of concentrated lubricant into a container)
- 2) Determine your target reading by measuring this "Gold Standard" with the refractometer. (instructions above)
- Record your reading for future reference. (e.g. a 10:1 ratio may produce a reading of 2.3° on the instrument) 31
- 4) For all future dilution's, use the refractometer to ensure that the new dilution produces the same reading that your "Gold Standard" produced. (e.g. all future dilution's should read 2.3° on the refractometer)

Warnings - Maintenance Accurate measurement depends on careful calibration. Follow the instructions above closely. Note: Shifts in 1) ambient room temperature will necessitate recalibration and the sample must be allowed ample time to adjust to the temperature of the prism prior to measurement. The prism and sample MUST be at the same temperature for accurate results. Do not expose the instrument to damp working conditions, and do not immerse the instrument in water. If the 2) instrument becomes foggy, water has entered the body. Call a qualified service technician or contact you dealer. Clean the instrument between each measurement using a soft, damp cloth. Failure to clean the prism on a 3) regular basis will lead to inaccurate results and damage to the prism's coating. 5) Do NOT measure abrasive or corrosive chemicals with this instrument. They can damage the prism's coating.

4) This is an optical instrument. It requires careful handling and storage. Failure to do so can result in damage to the optical components and its basic structure. With care, this instrument will provide years of reliable