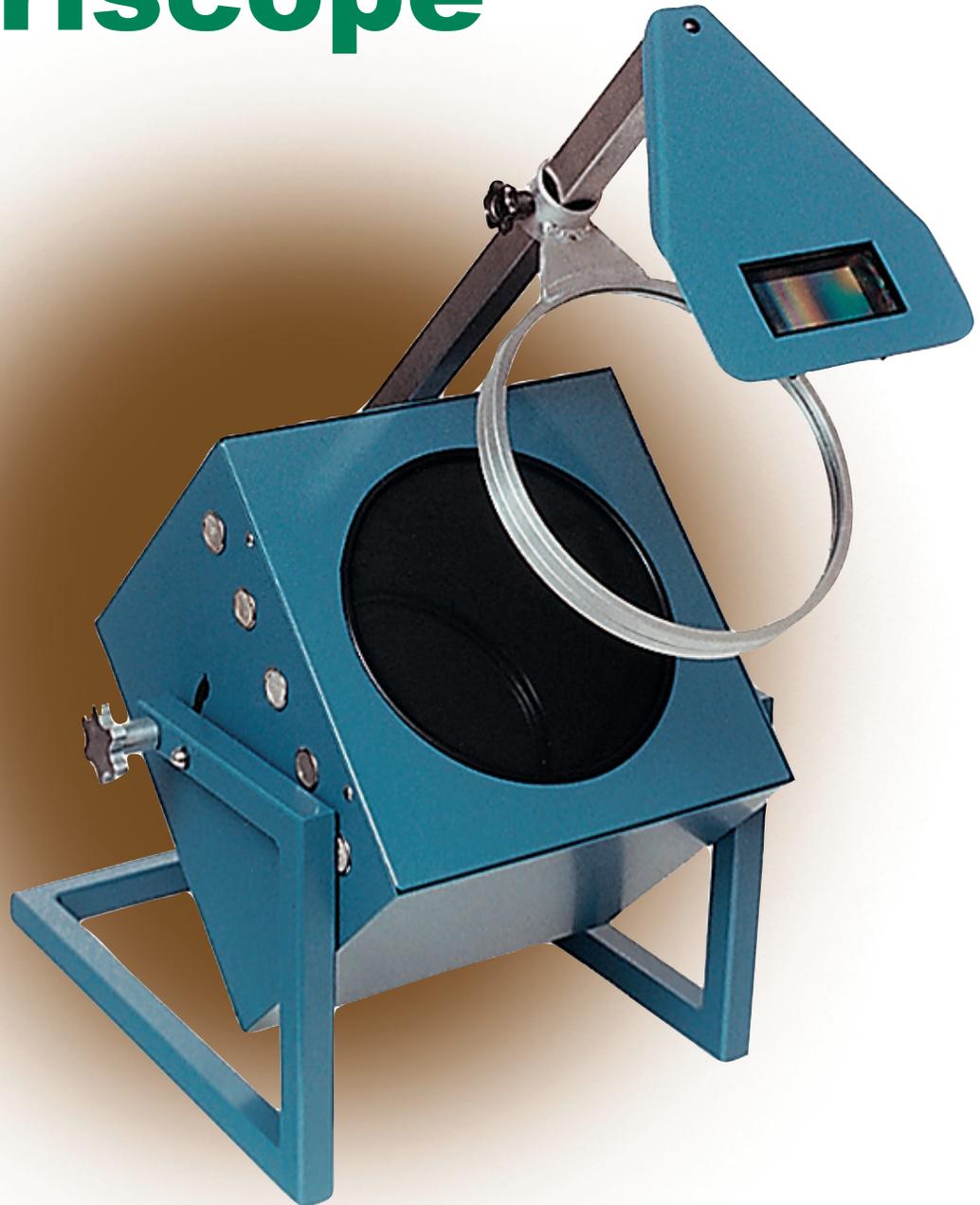


Polariscope



Evaluation of Residual Stress in Rigid Containers

- Detect annealing and structural stresses
- Evaluate quality of annealing
- Detect the presence of compositional irregularities

The Agr Polariscope is a laboratory tool that can be used to identify and evaluate residual stress in annealed glass containers and similar products. The Polariscope, when used with standardized disks of known retardation*, provides an effective tool for determining stress in many types of glass containers and related products according to ASTM C-148.

FEATURES

- Pivoting base for easy light table adjustment
- Adjustable stage to provide sufficient distance between elements to allow the inside bottle bottom surface to be viewed through the open container
- Large work area to permit evaluation of a wide variety of container sizes and shapes
- Tint plate provided to offset zero to 565mm

OPERATING PRINCIPLE

The Agr Polariscope works on the principle of using polarized light to identify strain in glass. The Polariscope incorporates a polarizing filter to convert white light into a polarized light source that is then directed through a glass sample. If the glass is free from stress, the light simply passes through unaffected. Stresses in the glass, however, retard the transmission of light, and produce various spectral colors when viewed through the Polariscope. The level of stress present and the thickness of the glass affect the amount that the light waves are retarded. Actual levels of stress (temper grade) can easily be determined by comparing colors exhibited during the test with those produced by calibrated standards*, taking into account the thickness of the glass.

*Calibrated standards (strain disks) are not supplied with this device Agr reserves the right to alter design and/or specifications without notice.

Agr International, Inc. ● Butler, PA USA ● Phone +1-724-482-2163 ● Fax: +1-724-482-2767 ● www.agrintl.com