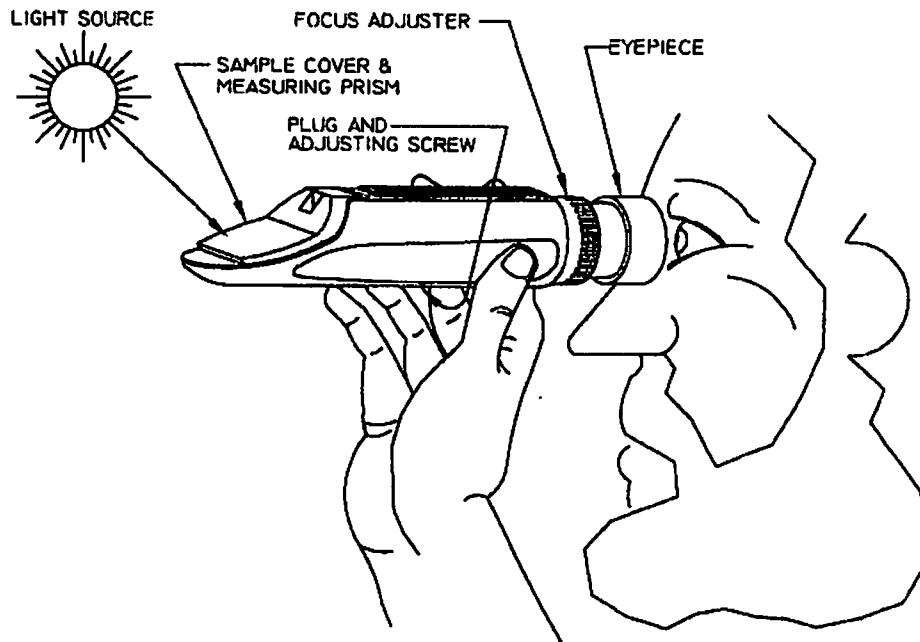


IMPORTANT * IMPORTANT * IMPORTANT * IMPORTANT * IMPORTANT
Please read this **BEFORE** reviewing the other literature

The Refractometer in this kit has a significantly improved housing and a new reticle that is graduated in 0.01 volume percent increments. The reticle has a graduated scale for diEGME only instead of a dual scale to include EGME.

The instrument should receive handling and care as shown in the accompanying literature as a delicate instrument.



NOTE: This instrument must be calibrated before each use, using some of the water that will be used to wash the diEGME (FSII) out of the fuel sample. Place a few drops of water on the prism glass after lifting the cover. Close the cover and look through the eyepiece with a light source as indicated. If the graduations and numbers are not clear, rotate the focus adjuster. A shadow line will be seen - light below the line, gray above the line. If the shadow line is not at zero, remove the small rubber plug that covers the calibrating screw in the middle of the nameplate strip. Insert the hex wrench in the calibrating screw. Turning the wrench one-half turn will raise or lower the shadow line one division (0.01%). To make the shadow line move upward, rotate the wrench in a clockwise direction, when looking at the nameplate. Counterclockwise is down.

WARNING:

Excessive rotation of the adjusting screw will destroy the instrument. If the entire screen is gray, use more water and seek a brighter light. Remember, rotate the screw clockwise to raise the shadow line, counterclockwise to lower the shadow line.

Turning the adjusting screw improperly can damage the instrument and void the warranty.

IMPORTANT INSTRUCTIONS

This test kit provides the necessary equipment for determining the volume percent (%v.) of anti-icing additive, known as AIA, FSII, PRIST® or DiEGME in turbine engine fuels.

TEST METHOD

Step 1. In a clean and dry container, procure a 200 ml sample of the fuel to be tested.

Step 2. Set up the ring stand as shown in Figure 1; fill one of the aluminum dishes half full of water (tap water is satisfactory).

Step 3. Open the cover of the refractometer window, make certain it is clean, and apply several drops of water to it, from the aluminum dish. Use a clean toothpick or a pencil. Close the cover and look through the eye-piece to observe the location of the shadow line on the graduated scale. The eye piece can be rotated for clarity. Remove the hex key from the instrument case and adjust the set screw (in the middle of the nameplate) so that the shadow line intersects the zero line of the scale. See Fig. 2 for a typical condition of a correctly zeroed instrument. Clean the cover and window.

CAUTION: Do not turn the adjusting screw until you read and understand the instructions on Bulletin 145-1. Turning the adjusting screw improperly can damage the instrument and void the warranty.

Step 4. Using the graduated cylinder, transfer exactly 160 ml. of the fuel to the separatory funnel that you have placed in the ring stand.

Step 5. Using one of the piston pipettes, add exactly 2 ml. of the same water to the separatory funnel from the aluminum dish. Cap the funnel and shake vigorously for 5 minutes. Then place it in the ring stand to let the water settle to the bottom.

Step 6. When some water has collected at the bottom, carefully rotate the separatory funnel drain cock so that a trickle of settled water can be taken in a clean, dry, aluminum dish.

Step 7. Using the same technique as in Step 3, transfer two or three drops from the aluminum dish to the refractometer prism; close the cover and observe the position of the shadow line. Fig. 3 shows a typical test result for fuel containing 0.065% DiEGME.

Step 8. Properly dispose of the liquids; wipe and dry all items. Treat the refractometer as an optical instrument and avoid damage to the lens and prism.

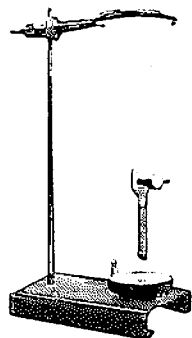


Figure 1

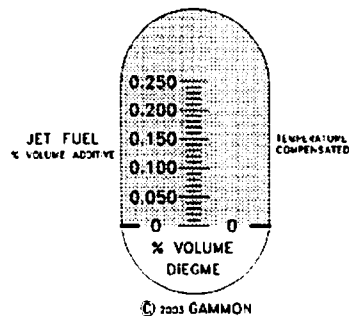


Figure 2

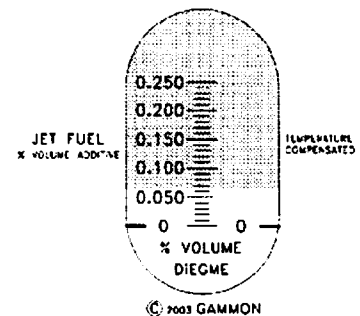


Figure 3

HOW TO ORDER

Complete Kit - order Model SC-B/2HB-C

Refractometer only - order Model SC-B/2HB-C1

Replacement Separatory Funnel - order Model SC-B/2-F1

Calculating Additions of DiEGME

If the user of this instrument intends to add DiEGME to correct fuel that contains insufficient additive, contact Gammon Technical Products, Inc for detailed instructions; ask for instruction 6361.

B/2 ANTI-ICING ADDITIVE TEST KIT

Parts List:

Part Number	Description
HB-P-C	Complete Kit: 18"x13"x6", ID molded black ABS carrying case, nicked hardware, locks and keys; the refractometer and ancillary equipment listed below. Directions for proper use Included.
HB-P-Ca	Carrying case only, as described as described as HB-P-C above pocketed by charcoal resin inserts to protect as needed the refractometer and ancillary equipment as below.
HB-R-1	Refractometer only, hand held, directions for use included.

Ancillary Equipment

HB-F-1	Funnel, separatory, polypropylene*, 250 ml. With screw cap stopper and stop cock.
HB-G-1	Cylinder, graduated, polymethylpentene*, 250 ml.
HB-S-1	Support, includes a base unit, rod and ring, to form a complete ring stand assembly.
HB-D-1	Dishes, aluminum foil, 100 ct. Per tube container.
HB-P-1	Pipet, piston style, 3 ml. 5/kit: 13/bag, if ordered separately.
HB-B-1	Bottle, polypropylene*, 60 ml. W/screw cap.

* = Vender reserves the right to substitute different plastic materials, as availability provides.

For prices and quotations contact:

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