



GASOLINE HYDROMETER KIT #3070

Kit Includes:

- Instruction Sheet.
- 500-ml polymethylpentene hydrometer jar.
- Laboratory grade stainless steel 25 - 125 degree F thermometer with beaker clip.
- Precision .710 - .750 range specific gravity hydrometer with 0.0005 divisions.

CAUTION: *The hydrometer is made of glass and is very fragile! Treat with care!*

This kit, when utilized properly, can help determine the suitability of race fuel. The specific gravity of the fuel should be as specified by the fuel manufacturer at a specific temperature. If the specific gravity is not per the manufacturer's specification a change in the fuel's combustion properties, which will result in a decrease or increase in the power potential of the fuel. Just how much of a change from specification is too much is often up for debate; many top crew chiefs won't use fuel that isn't exactly on specific gravity. Consult with your fuel supplier for further information about this.

It is important to note that verifying the specific gravity of the fuel will not necessarily prove that the fuel has not been "doctored" with some other additive. It is best to buy your fuel from a reliable source, and store it in tightly sealed containers, in a cool, dry place.

DIRECTIONS:

1. Obtain specific gravity and temperature information from your fuel supplier.
2. Fill the hydrometer jar 3/4 full with the fuel specimen to be tested. Place the jar on a level surface to conduct the test. Do not attempt to hold the jar in your hands to conduct the test, as inaccurate results will likely occur.
3. Insert the thermometer probe into the fuel sample. There is a beaker clip with the thermometer to properly hold the thermometer in place during the temperature measurement process. Caution! Do not immerse the gauge portion of the thermometer in the fuel. Allow the thermometer to stay in the fuel until the temperature reading stabilizes. Once the temperature reading has stabilized, record the temperature for future reference and remove the thermometer from the hydrometer jar.
3. Carefully remove the hydrometer from its container and insert it into the hydrometer jar. The hydrometer should float freely within the jar. If the hydrometer falls to the bottom of

the jar and does not float there is probably not an adequate amount of fuel in the jar. If this occurs, add additional fuel and start the entire procedure over again.

4. Allow the hydrometer adequate time to stabilize (stop bouncing up and down). Once the hydrometer is basically motion less; look through the side of the jar to the scale on the stem of the hydrometer. The specific gravity should be read at the top of the fluid. The hydrometer included with this kit can be read to four (4) decimal places, such as 0.7254. Take careful readings to assure best accuracy. Please note that as you read down the stem of the hydrometer the readings get higher. Once you are satisfied you have an accurate reading, record it with the fuel temperature from step #2.

5. Refer to the Specific Gravity Temperature Correction information provided by your fuel supplier. Locate the temperature of your fuel sample on the chart. The specific gravity listed for that temperature should match the specific gravity of your fuel sample. If there is any difference, you may wish to repeat the testing procedure to confirm the results.

6. Remove the hydrometer, dry with a soft cloth or paper towel and return it to its proper storage container. Empty the hydrometer jar contents back into your fuel supply and dry the jar with a soft cloth or paper towel.

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