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**APPARATUS FOR  
TEST METHOD  
D5452**

**BULLETIN 151  
(11-20)**

## **SUPPORT STAND AND APPARATUS FOR ASTM TEST METHOD D5452**

Designed for safety from electrostatic hazards during filtration

To collect solid contaminants from a fuel sample for gravimetric determination

Hands-free method for transferring sample to the filter funnel

Support stand in accordance with ASTM Method D5452

Stable support is adjustable, aluminum construction

Accessory items for D5452 procedure are available

This apparatus is well suited to perform three tests:

- Gravimetric determination of particulate content, per D5452
- Membrane color per D5452
- Filter time test per US Air Force Technical Manual T.O. 42B-1-1

As described in ASTM Method D5452, the support stand is designed to hold the container that was used to collect the jet fuel sample in the field. There is no need to transfer the sample from the collection container to another container, thereby eliminating possible contamination from the second container.

Using a flexible dispensing tube assembly that fits the thread of the port in the top of the sample container, the operator closes the tube with the clip to prevent the release of fuel when the container is being turned upside-down to place it on the support stand upper shelf. The tube is then positioned in the filter tunnel before releasing it. This allows fuel to fill the funnel but it will not overflow because air must return to the container through the same tube. The filter funnel remains full in the same way that a bird feeder operates because the lower end of the tube is below the fuel surface in the funnel.

Vacuum in the collection flask draws fuel through the membrane filter desk that is positioned at the base of the filter funnel. Hands-free operation is assured. The operator is no longer required to hold the container as fuel is poured into the filter funnel. The potential for spillage is virtually eliminated.



## HOW TO ORDER

### COMPLETE APPARATUS

GTP-8368 Complete apparatus assembly, including each of the components listed below

### APPARATUS COMPONENTS

GTP-8197 Support test stand  
GTP-8199 Flask, 4 liter, graduated (2 of these are included when GTP-8368 is ordered)  
GTP-8369 Dispensing plug for 1 gallon sample can  
GTP-8372 Flask to flask connect hose  
GTP-8373 Vacuum attachment/stopper assembly  
GTP-8374 Flask bonding and grounding cable  
GTP-8375 Apparatus bonding and grounding cable  
GTP-9563 Filter holder/funnel assembly  
TL-2935-B1 1-gallon sample container

### OPTIONAL ACCESSORIES (to be ordered separately)

GTP-8370 Dispensing cap for 1 gallon sample can - formed from sheet metal, fits oblong cans only  
TL-3777-1 47mm, 0.8 micron membranes (package of 100)

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## TL-9555: DISPENSER FOR FILTERED FLUSHING FLUIDS

This type of 1-liter dispenser is specified in various ASTM test methods such as D-2276 and D-5452 which are used to determine the weight of contaminants that are in fuel samples.

One dispenser is recommended for isopropyl alcohol to flush particles off of laboratory apparatus before it is used to insure that those particles are not included as contamination in the fuel sample.

A second dispenser is used for petroleum spirit (either) to flush residual particles out of the sample container and off of the funnel that was used to deliver the fuel sample from its container onto the filter membrane after the container contents have been passed through it.

Both dispensers are equipped with filter housings to remove particles from the isopropyl alcohol and from the petroleum spirit. A packet containing 10 of 0.4533 membranes (25 mm diameter) are included with each dispenser. Replacement membranes are available in a packet of ten (order GTP-9582).

The squeeze bulb develops pressure in the 1 liter flask, forcing fluid into the tubing and through the filter membrane. Gammon Technical Products manufactures the aluminum filter housing and membrane support using reagent resistant materials.

