



**GAMMON TECHNICAL PRODUCTS, INC.**  
P.O. BOX 400 - 2300 HWY 34  
MANASQUAN, N.J. 08736

PHONE 732-223-4600  
FAX 732-223-5778  
WEBSITE [www.gammontech.com](http://www.gammontech.com)  
STORE [www.gammontechstore.com](http://www.gammontechstore.com)

**APPARATUS TEST  
METHOD D5452**

**BULLETIN 151  
(8-10)**

## **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

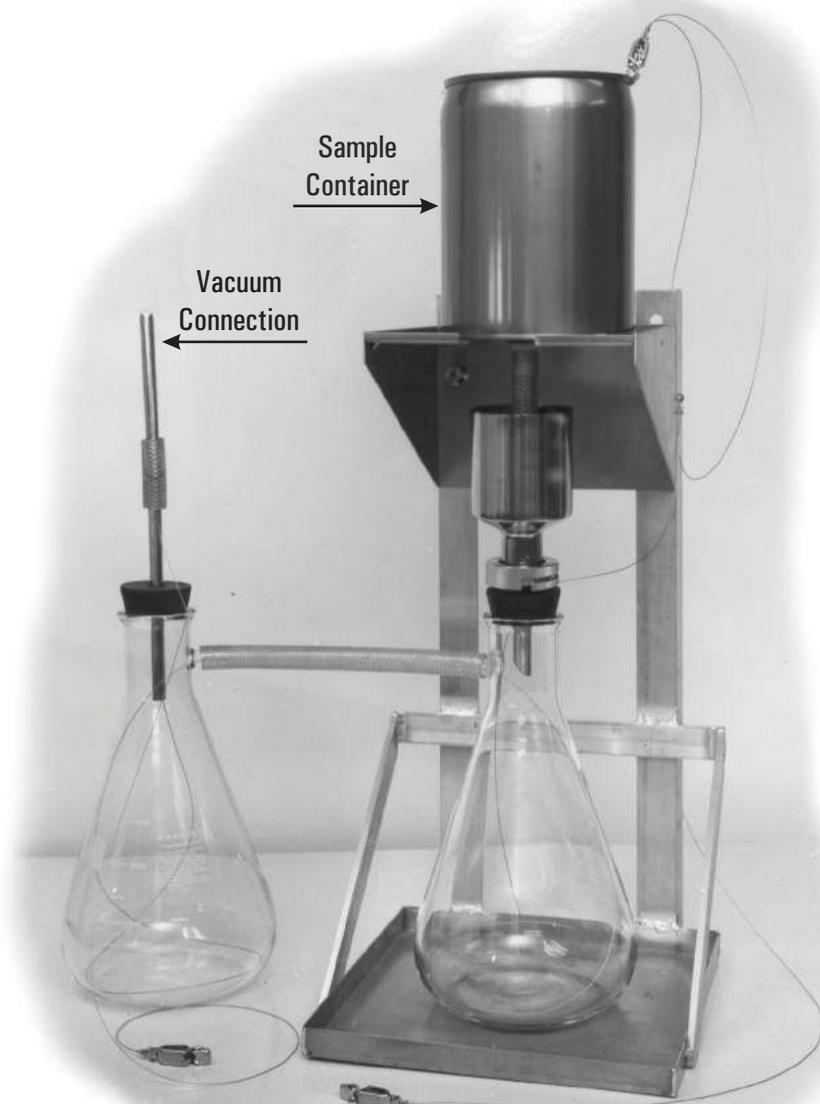
Support stand in accordance with ASTM Method D5452

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



## DESIGNED TO AVOID ELECTROSTATIC HAZARDS ELIMINATES NEED TO HOLD CONTAINER WHILE POURING INTO FUNNEL

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

<a href="#">GTP-8368</a>	Complete apparatus assembly, including each of the following items
<a href="#">GTP-8197</a>	Support test stand
<a href="#">GTP-8199</a>	Flask, 4 liter, graduated (2 of these are included when GTP-8368 is ordered)
<a href="#">GTP-8369</a>	Dispensing plug for 1 gallon sample can
<a href="#">GTP-8370</a>	Dispensing cap for 1 gallon sample can (see second note below)
<a href="#">GTP-8372</a>	Flask to flask connect hose
<a href="#">GTP-8373</a>	Vacuum attachment/stopper assembly
<a href="#">GTP-8374</a>	Flask bonding and grounding cable
<a href="#">GTP-8375</a>	Apparatus bonding and grounding cable
<a href="#">GTP-9563</a>	Filter holder/funnel assembly

**NOTES:** GTP-8368 now includes one 1-gallon sample container (TL-2935B1) as shown in photo

GTP-8370 dispensing cap for 1-gallon sample can is an optional extra item in GTP-8368. These caps are formed from sheet metal and fit oblong cans only.

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## 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 0.45<sup>33</sup> 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.



[TL-9555](#)