

Petrotech kit for particulate Contamination

METHOD(S)- ASTM D5452 AND IP 423.

SAMPLE TYPE- AVIATION FUELS.

B A C K G R O U N D

ASTM D5452 Method provides a gravimetric measurement of the particulate matter present in a sample of aviation turbine fuel delivered to a laboratory for evaluation. The objective is to minimize these contaminants to avoid filter plugging and other operational problems. Although tolerable levels of particulate contaminants have not yet been established for all points in fuel distribution systems, the total contaminant measurement is normally of most interest. The sample is filtered through a test membrane and a control membrane using vacuum. The mass change difference identifies the contaminant level per unit volume.



T E S T P R O T O C O L

A known volume of fuel is filtered through a pre weighed test membrane filter and the increase in membrane filter mass is weight determined after washing and drying. The change in weight of a control membrane located immediately below the test membrane filter is also determined. The objective of using a control membrane is to assess whether the fuel itself influences the weight of a membrane. The particulate contaminant is determined from the increase in mass of the test membrane relative to the control membrane filter.

RECOMMENDATIONS

It's recommended to have a General laboratory support equipment's such as Analytical Balance, single- or double-pan, with minimum precision standard deviation of 0.07 mg or better and Oven of the static type (without fan-assisted air circulation), controlling to 90°C +/- 5 °C.

OUT OF BOX BUNDLE

- Ground/bond wire
- 100 x 0.45-micron filter
- Matched weight membrane filter 47mm of 0.8-micron pore size.
- Stainless steel filter holder with stainless steel screen
- Filter Forceps
- Dispenser for filtering flushing fluid.
- Vacuum System Includes (Vacuum filtering flask, Vacuum tubing complete Set and Vacuum Pump with Regulator)
- Petri dishes
- One laminated page includes SOP (Standard Operating Procedures)
- Product Test report.
- USB memory stick Includes SOP, ASTM Method and Test report.

Ordering Information	
PN	Contents
PT-01-5452	Particulate Contamination in Aviation Fuels Filtration Kit for ASTM D5452, IP 423

