

Petrotech kit for particulate contamination

METHOD(S)- ASTM D 6217 AND IP 415.

SAMPLE TYPE- MIDDLE DISTILLATE FUELS EXCLUDING FUELS WITH WHOSE FLASH POINT LESS THAN 38 °C.

BACKGROUND

ASTM D 6217 covers the determination of the mass of particulate contamination in a middle distillate fuel by filtration. This test method is not suitable for fuels whose flash point is less than 38 °C. This test method meant for assessing the mass quantity of particulates in middle distillate fuels, The mass of particulates present in a fuel is a significant factor, along with the size and nature of the individual particles, in the rapidity with which fuel system filters and other small orifices in fuel systems can become plugged. This method provides a means of assessing the mass of particulates present in a fuel sample. method can be used in specifications and purchase documents as a means of controlling particulate contamination levels in the fuels purchased.



TEST PROTOCOL

A measured volume of about 1 L of fuel is vacuum filtered through one or more sets of 0.8 μm membranes. Each membrane set consists of a tared nylon test membrane and a tared nylon control membrane. When the level of particulate contamination is low, a single set will usually suffice; when the contamination is high or of a nature that induces slow filtration rates, two or more sets may be required to complete filtration in a reasonable time. After the filtration has been completed, the membranes are washed with solvent, dried, and weighed. The particulate contamination level is determined from the increase in the mass of the test membranes relative to the control membranes, and is reported in units of g/m³ or its equivalent mg/L. The result provides a clear measure of particulate contamination, ensuring fuel quality and suitability for engines and systems.

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/Bonding Wire
- 100 x 0.8 Micron Funnel Filters
- Funnel & Base with Stainless Steel Spring Holder
- Receiving Flask
- Safety Flask
- Crucible Tongs/Forceps
- Dispenser for filtering flushing fluid.
- 100 x 0.45 Micron Solvent Dispenser Filters
- 3 x 12.5 cm Petri Dish & Cover
- 6 x Watch Glass
- Vacuum System Includes (Vacuum filtering flask, Vacuum tubing complete Set and Vacuum Pump with Regulator)
- One laminated page includes SOP (Standard Operating Procedures)
- Product Test report.
- USB memory stick Includes SOP, ASTM D 6217 Method and Test report.

Ordering Information	
PN	Contents
PT-01-6217	Particulate Contamination in Middle Distillate Fuels by Laboratory Filtration System ASTM D6217, IP 415

