

Falex Thermal Fouling Tester (FT²)

- ▶ **Full Data Acquisition and Control**
- ▶ **Automatic Tube Temperature Profile**
- ▶ **Integrated Safety System**
- ▶ **Small and Compact**
- ▶ **Safe and Reliable**

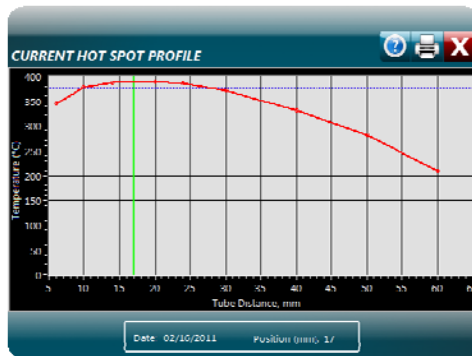


Methods

Conforms to:

- **SAE ARP 5996B**

The Falex FT² (SAE) is the first instrument designed specifically for the SAE ARP 5996B Evaluation of Coking Propensity of Aviation Lubricants Using the Single Phase Flow Technique Test Method.

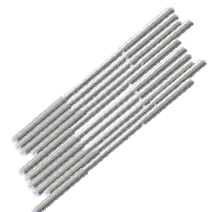


With the features that users have asked for, it's the ultimate in ease of use and fully flexible programmability. At the same time, the FT² gives you convenient, flexible programming along with extensive, customizable safety and shutdown protocols. The FT²'s enhanced hotspot determination and confirmation routines mean the Falex FT² should be a part of your critical turbine oil analysis laboratory!

The FT² Refinery Process Analyzer (RPA) is helpful for research projects and production studies of heat exchanger fouling tendencies, antifoulant efficiency studies and crude oil fouling studies.

Heater Tube Materials

Part Number	Material
400-560-001	Aluminum, with dp filters
400-560-003	316 Stainless Steel



FT²

for the ultimate evaluation of crude and lubricating oil coking tendencies

Common Technical Data

Heater Tube Temperature	300 - 450°C max.
Fluid Flow Rate	0.55 - 10 mL/min
Sample Capacity	1 L under system pressure
Test Duration	2.5 - 500 hours
Dimensions (HWD)	30 x 30 x 22 in, 175 lb 762 x 762 x 559 mm, 79.5 kg
Interfaces	USB, Ethernet

SAE ARP 5996 System (SAE)

Temperature Range and Capabilities

Reservoir	150°C max.
Pressure	0 - 200 psi (1.38 MPa)
Power	120 or 230 VAC, 50/60 Hz

Refinery Process Analyzer (RPA)

Temperature Range and Capabilities

Reservoir	150°C max.
Pressure	0 - 1,000 psi (6.9 MPa)

External Bus Bar Cooler

Optional Heated Lines

Optional 2nd reservoir

NOTE: Maximum design parameters may not be achievable simultaneously in all situations.

Ordering Information

Part Number	Description
450-001-001	Falex Thermal Fouling Tester (FT ²) per SAE ARP 5996B, 120 V, 50/60 Hz
450-001-002	Falex Thermal Fouling Tester (FT ²) per SAE ARP 5996B, 230 V, 50/60 Hz
450-001-004	Falex Thermal Fouling Tester (FT ²), Refinery Process Analyzer, 230 V, 50/60 Hz



Available Options and Spare Parts

Part Number	Description
450-097-004	Heated Test Supply/Return Lines Kit (RPA)
450-106-002	Pump Heater Jacket (RPA)
450-200-003	Differential Pressure System Assembly (RPA)
450-200-004	2nd Reservoir for Single-pass Testing (RPA)
450-097-003	O-Ring kit for 20 tests Includes o-rings for reservoir top, outlet port, pump fittings, line connections and thermocouple connections
450-097-006	Sight-Glass O-Ring Kit
450-103-008	Heater Tube Thermocouple
450-109-004	Inlet or Outlet Thermocouple
450-109-006	Remote Emergency E-Stop
450-200-002	Replacement oven tube holder
450-106-001	Heater Jacket (SAE)
450-106-003	Heater Jacket (RPA, Bolted Flange)

Manufactured by



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