



MARFLASH Military Flashpoint Analyzer

FIELD INSTRUMENT FOR FUEL ACCEPTANCE TESTING

The MARFLASH is a flameless flashpoint tester used for acceptance testing of JP5, JP8 / Jet A1 and diesel DF-2 fuels. This rugged lab and field instrument is the result of cooperative development between Petrolab Company and the United States Marine Corps.

The adoption and use of the MARFLASH by the U.S. Marine Corps has improved fuel safety through greatly simplified personnel training and equipment maintenance. It has proven both accurate and durable while providing users with exceptional fire safety and analytical performance.

EXCEPTIONAL SAFETY AND EASE OF USE

Flashpoint tests are performed automatically in a closed-cup chamber, with no open flame or auxiliary fuel, once the operator presses the RUN key. The MARFLASH requires only 1.0 mL of sample which minimizes fire hazards. The small sample size facilitates cool-down between tests to improve instrument productivity and reduces sample disposal concerns. Cleaning is easy with no need for solvents. Test completion is indicated by an audible signal and red/yellow/green visual indicator lights on the MARFLASH front panel.

DATA HANDLING CAPABILITIES

Test conditions and results are °F/°C selectable and are displayed on a back-lit LCD display. Previous test data may be stored to compare and predict the percent contamination of products tested by their change in flash point. Test results can be transferred to a printer or computer via a standard RS232 serial port.



TEST APPLICATIONS

- ✓ U.S. Marine Corps' Aviation Fuel Acceptance test protocols
- ✓ JP-5, JP-8 / Jet A1, Diesel DF-2 and non-spec fuels
- ✓ ASTM D6450 Flashpoint

FEATURES

- ✓ Test Temperature Range: 0° to 200°C
- ✓ 1 ml sample size
- ✓ RS232 interface software, port with cover
- ✓ Backlit LCD Digital Panel display

MARFLASH Flashpoint Tester

Petrolab Part Number: 44200

MARFLASH, complete package includes:

- 1 x Flashpoint Analyzer w/ Custom Case, 10225A
- 1 x Sample cup carrier, 40013
- 3 x Sample cups, 40012
- 1 x Dodecane flashpoint calibration kit, 24 x 10 mL vials per kit, 40007
- 10 x Disposable pipettes for sample filling
- 2 x Brass arc clng tools for electrode cleaning, 40016
- 5 x Spare fuse packs (2 fuses per pack), 20110
- 1 x Instrument dust cover, 44002
- 1 x Instr. manual, operating summary card, test cert.
- 1 x Printer cable, 10133 (NOTE: Printer not incl.)

Optional Accessories

Part #	Description
44001	Anti-vibration plate, shock protecting
40012	Miniflash Sample Cup, nickel plated aluminum, 1 ml sample size (total capacity 4 ml), for all models, for ASTM D 6450
40013	Miniflash Sample Cup Carrier for single-place models
44003	Pipette, metal, 1.0 mL, $\pm 1\%$ accuracy, sample introduction, red identifier (NSN 6640-01-472-3855)
44004	Pipette, metal, 5.0 mL, $\pm 1\%$ accuracy, reference preparation, blue identifier (NSN 6640-01-473-0760)
44005	Pipette Tips, 1.0 mL draw, disposable pkg. of 1,000 (6640-01-457-4508)
44006	Pipette Tips, 5.0 mL draw, disposable pkg. of 500 (6640-01-473-0772)
44007	Volumetric Flask, 100 mL, PMP with screw-cap closure (6646-01-473-0776)
40007-1	Dodecane Standard Calibration Kit consisting of 10 X 24ml vials
40016	Miniflash Brass Fiber eraser for cleaning electrodes
41003M	Metal Stir Bar
44008	Pipettes Disposable, Package of 10
10112-C	MiniPrinter, 3 inch roll paper (Grabner printer cable required)
10112-SP	MiniPrinter Spares package. (12 rolls of paper and 3 printer ribbons)

Physical Specifications

Test Temperature Range: 0° to 200°C

- User Interface:
- Backlit LCD Digital Panel Display
 - Test Completion Signal - Audible
 - Test Result Signal - Visual
 - RS232 Interface Software, Port with Cover
- Power Requirements:
- 100/120/230/240 VAC, 50/60 HZ, 130 W
- Field Application:
- 12 V/8A DC (vehicle battery)
- W x H x D:
- 196 x 315 x 175 mm (7.7" x 12.4" x 6.9")
- Weight:
- 9 kg (20 lbs)



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