



COMPATIBILITY/STABILITY TEST KIT™

DESCRIPTION

COMPATIBILITY/STABILITY TEST is a modified version of the ASTM D4740-94 test method. The test methods list two separate procedures for determining the compatibility of two fuel oils, prior to mixing them together, and stability of residual fuel oil. When performing compatibility and stability tests separation of blending/mixing components in various tanks and centrifuge can be avoided.

Also, blockage of fuel systems will not occur.

These test methods are simple and accurate and provide quick and valuable test results.

ADVANTAGES & CHARACTERISTICS

- ◆ Available in small and compact sturdy case.
- ◆ The test method used by conventional laboratories.
- ◆ No dangerous solvents involved for washing the spot.
- ◆ Quick and reliable determination.
- ◆ Designed specifically for on-board use.
- ◆ Separation of blending/mixing components in various tanks and centrifuge can be avoided.
- ◆ Cost effective, easy to apply and use.

TEST KIT CONTENTS

COMPATIBILITY/STABILITY TEST KIT consists of the following parts:

- ◆ 1 pc Chromatographic paper (filter paper), box of 100
- ◆ 1 pc Holder for filter paper
- ◆ 1 pc Magnetic heater/stirrer
- ◆ 1 pc Pair of tweezers
- ◆ 2 pcs Magnets, 20x6mm
- ◆ 1 pc PTFE/Aluminium oven
- ◆ 1 pc Reference spot sheet ASTM D4740
- ◆ 1 pc Digital Thermometer -5°C to 150°C
- ◆ 1 pc Erlenmeyer 100ml (conical flask)
- ◆ 1 pc Carrying case with interior

PACKAGING

Order Number : 720104

Container : Sturdy Case

TESTING PROCEDURE

STABILITY (on fuels as received)

1. Pour approx. 60ml of fuel into the 100ml conical flask and add one magnet.
2. Turn on the heater to 100°C and place the conical flask on the heater. Proper temperature is reached after approx. 15 minutes.
3. Place the oven on the heater and put the conical flask in the oven back and let it warm up again. Temperature can be measured by putting the sensor of the digital thermometer in the small hole of the oven.
4. If needed adjust the temperature to 100°C.
5. As soon as the oil has reached a stable temperature of approx. 100°C remove the conical flask from the oven.
6. Let a drop of the oil fall on the filter paper by using the pin.
7. By using the tweezers, place the filter paper on the filter holder and place the holder in the oven and allow drying for approx. 20 minutes.
8. Compare the spot with the reference spot chart.

COMPATIBILITY (different, new fuel and remainder of stock)

1. Pour equal quantities of the stock to be mixed into the conical flask (say 30ml of each) and add one magnet.
2. Turn on the heater to 100°C and place the oven on the heater.
3. Put the conical flask in the oven, and put the sensor of the digital thermometer into the small hole at the side of the oven.
4. If needed adjust the temperature to 100°C. Proper temperature is reached after approx. 15 minutes.
5. As soon as the oil has reached a stable temperature of approx. 100°C remove the conical flask from the oven.
6. Let a drop of the oil mixture fall on the filter paper by using the pin.
7. By using the tweezers, place the filter paper on the filter holder and place the holder in the oven and allow to dry for approx. 20 minutes.
8. Compare the spot with the reference spot chart.



INTERPRETATION

1. Homogeneous spot (no inner ring), reference spot 1.
2. Faint or poorly defined inner ring, reference spot 2.
3. Well-defined inner ring, only slightly darker than the background, reference spot 3.
4. Well-defined inner ring, thicker than the ring in reference spot no. 4 and somewhat darker than the background.
5. Very dark solid or nearly solid area in the centre, the central area is much darker than the background, reference spot 5.

WARNING !

DO NOT TOUCH THE OVEN MANTLE WHEN IN OPERATION, ALTHOUGH THE EXTERIOR OF THE OVEN IS MADE FROM TEFLON, **IT CAN BE HOT**. WAIT UNTIL COOLED DOWN BEFORE REMOVING THE OVEN.



COMPATIBILITY OF FUEL OIL BLENDS BY SPOT TESTS

Reference Spot



No. 1



No. 2



No. 3



No. 4



No. 5

 **Read the Material Safety Data Sheet before using this product.**

For detailed information on safety and health, please refer to Material Safety Data Sheet and/or Product Label.

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