

DISTILLATION OF CUT-BACK ASPHALTIC PRODUCTS

STANDARD

ASTM D402, AASHTO T78, NF T66-003, UNE 7112, 7072

81-B0150

Apparatus for distillation of cut-back asphalt

General description

This apparatus is used for the examination of cut-back asphaltic materials by the distillation test. Comprising: distillation flask, condenser, adapter, shield, shield and flask support, Bunsen burner, cylinder receiver, thermometer -2 +400°C.

Weight approx.: 6 kg

Accessories

82-B0150/10 Low distillation thermometer, ASTM 7 C, -2 +300°C, subd. 1°C

81-B0150/12 Crow receiver 25 ml cap.

81-B0150/13 Crow receiver 50 ml cap.

81-B0150/14 Crow receiver 100 ml cap.

Spare parts

81-B0150/1 Distillation flask

82-B0150/11 High distillation thermometer, ASTM 8 C, -2 +400°C, subd. 1°C



81-B0260

PRESSURE AGEING VESSEL (PAV)

Introduction

Aging is today one of the fundamental parameters for the evaluation of the performance qualities during field service. The SHRP program gives great importance to ageing to evaluate the performance grade of bituminous binders.

The Pressure Aging Vessel has been developed to simulate in-service ageing of asphalt binder after 5 to 10 years. The binder is exposed to high pressure and temperature for 20 hours to simulate the effects of long term oxidative ageing.

STANDARD

AASHTO PP-I, ASTM PS36, SHRP test method B 005

81-B0260

Automatic pressure ageing vessel.

230 V, 50-60 Hz, 1 ph.

81-B0260/Z

Same as above but 110 V, 60 Hz, 1 ph.

General description and specifications

The apparatus consists of a stainless steel pressure vessel with encased band heaters and integral pressure and temperature controls. A platinum RTD measures internal test temperature to $\pm 0.1^\circ\text{C}$. Selectable test temperatures (standard 90/100/110°C) are controlled to $\pm 0.2^\circ\text{C}$. Pressure is monitored by transducer and controlled to 2.1 ± 0.1 MPa. Temperature and pressure digital indicators display both set points and actual values.

Temperature and pressure calibration can be site executed. An excess pressure relief valve and a temperature high limit are standard safety features. Data logging of both temperature and pressure and PC transfer of data at the end of the test. Bottled compressed air with regulator must be user provided.

Supplied complete with 10 stainless AASHTO/ASTM T179 thin-film oven test pans, precision assembled rack to support the pans power card, operator's manual, spare "O" ring gasket and serial data cable.

Power:

550 W, 50 W at preheat temperature

Dimensions: 650x430x405 mm

Weight approx.: 73 kg



81-B0150