

**ASTM D 36- IP 58-ISO EN 1427 - ISO 4625 - IP 58 - DIN 52011**

**SCOPE:**

This test method covers the determination of the softening point of bitumen in the range from 30 to 157°C (86 to 315°F) using the ring-and-ball apparatus immersed in distilled water (30 to 80°C), USP glycerine (above 80 to 157°C), or ethylene glycol (30 to 110°C).

**APPLICATION:**

Bitumen tester.

**AUTOMATIC SOFTENING POINT OF BITUMEN RING & BALL -  
- MODELE NBA 440 -  
- REF 40100-**

**MAIN CHARACTERISTICS**

- ✓ Large display
- ✓ Automatic detection of softening point by optical cells
- ✓ Data Storage : 200 results
- ✓ Quick access to calibration parameters
- ✓ Auto diagnostic
- ✓ 4 preset of programmable methods available
- ✓ Controlled heating rate and stirring speeds
- ✓ Preheating cycle
- ✓ Cooling by fan at the end of the test
- ✓ WATERPROOF heating element

**SUPERVISOR SOFTWARE**

Supervisor software delivered on CD-Rom for real-time data downloading on PC computer running Windows (c) 98 - 2000 - XP / possibility to collect the data for a LIMS.

**CONSUMABLES**

- REF 17487** Calibrated beaker
- REF 20764** Pack of 10 straight rings
- REF 20765** Pack of 10 shouldered rings
- REF 25666** Pack of 10 conical rings
- REF 40390** Roll of printer paper
- REF 20766** Pack of 10 balls

**SPARE PARTS**

- REF 40103** Detection lamp
- REF 40138** Ring & ball cradle for preconditioning the samples
- REF 40139** Pt 100 probe for NBA 430/440
- REF 40154** Heating element , 1000 W



**SCOPE OF DELIVERY**

**NBA 440** delivered ready to use with SEIKO ticket printer, 2 standardized beakers, 10 shouldered rings, 10 balls, cradle, Pt 100 probe, detection cable, stirrer and RS232C output.

**Supervisor software included**

For use on AC 230V - 50Hz - 4A - (W) 260x (D) 535x (H) 500 mm (±20 kg) / 115 V on request.

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