

ASTM D 5 - ISO EN 1426 - IP 49 - DIN 52010 & D 217 - ISO 2137 - IP 50 - DIN 51580 & D 937 - IP 179 - DIN 51579 & D 1321 - ISO 3992 - DIN 51579 & D 1403- ISO 6298 - IP 310

SCOPE

This test method covers determination of the penetration of semi-solid and solid bituminous materials.

FULLY AUTOMATIC MODEL OF PENETRATION VALUE DETERMINATION

NPN TECH MODEL -

- REF 942734 -

MAIN CHARACTERISTICS

- Built-in software
- Full auto approach on conductive products & hard bitumen (in option)
- 4 programmable reference positions for cone holder assy
- Stepper motor for penetration depth as low as 0.01 mm
- Programmable Penetration time between 0 and 999 min
- Range: 0 to 75 mm
- Results: in 1/10 mm on full range

SCOPE OF DELIVERY

Holder for accessories, magnifying lens and low voltage illuminator, centering guide with screw and nut, power cord, set of 2 fusibles, RS232C output, accessories for automatic level detection for conductive sample comprising probe cable, mini grip & test probe and instruction manual.

ADITIONAL ACCESSORIES AND OPTIONS

REF 9417341	Light bulb for ref. 941734
REF 9417342	Flexible light for ref.941734
REF 9417343	Magnifying glass for ref. 94173
DEE 407246E	CD

REF 4873465 CD-rom with PC application + USB cable - for NPN TECH

REF 0195200004 Transfer bath, made of stainless steel with coil

To be connected to a water bath
Transfer bath support made of stainless steel

REF 22246 Cryostat -30...+150°C : 0,03°C, with depth of 200mm

REF 941732 Calibration kit for automatic penetrometer REF 9417371 Bitumen automatic level detection device REF 11504 ASTM thermometer (17 C), + 19 to 27°C REF 11532 ASTM thermometer (63 C), - 8to + 32°C REF 11533 ASTM thermometer (64 C), +25 to + 65°C



REF. 942734 - NPN TECH



GREASE MODE



REF 941736

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ACCESSORIES AND CONSUMABLES for Bitumen (ASTM D5)

REF 518063	Standard	needle 2.5 a	(un to	350 units)
KEL STOODS	Stariuaru	necule 2.5 q	lup to	JJU ullits)

Needle holder 47.5 g (1 supplier with main equipment) **REF 941737**

REF 941810 Outfit for penetration of bituminous material, comprising: needle, holder,

50 g weight and 2 containers

REF 941812 Additional weight 100 g **REF 941815** Additional weight 50 g

REF 9418140 Long needle 2.5 g (up to 500 units)

REF 21712 Pack of 300 Sample containers only one use, 55x35 mm

Aluminium container, 55 X 35 mm, **REF 518066**

Aluminium container, 55x70 mm (>200 units) **REF 9418181** Aluminium container, 55x57 mm (up to 500 units) REF 9418191

Standard needle 2.5 g (up to 350 units) with UKAS Certificate **REF 21932**



REF 941735

ACCESSORIES (for lubricating greases - ASTM D 217)

REF 941739 Grease cutter with blade

REF 941736 Outfit for consistency of lubricating grease comprising: cone, holder and

container

REF 941737 Cone holder, nickel-plated brass, movable, 47.5 g

Standard cone 102.5 g **REF 941738** REF 9417411 Sample container, 76x63 mm

REF 27322 Spatula 30x200 mm

REF 9417582 Normalab production - GWM CLASSIC- Compact twin-unit automatic grease

worker - using electronic counter to control the strokes number. Delivered in standard with 2 plunger plates 51 holes + 2 covers + 2 Shaft and Handle

+ 2 Vent Cocks.

For use on AC 400 V, three-phase, 50 Hz, 16 A, 400x260x500 mm (±29 kg)



REF 941811

ACCESSORIES (for consistency of petroleum - ASTM D 937)

REF 941735	Outfit for consistency of pe	etroleum, comprisina : a	cone, container and holder

REF 941737 Cone holder, nickel-plated brass, movable, 47.5 g

REF 941738 Standard cone 102.5 g

REF 9417412 Sample container 100 x 65 mm with cover **REF 518063** Standard needle 2.5 g (up to 350 units) **REF 518081** Needle with shoulder 2.5 g, stainless steel



REF 9417582

ACCESSORIES (for consistency of petroleum waxes - ASTM D 1321)

REF 941811	Outfit for consistency of	of petroleum waxes	s comprising: sl	nouldered needle,
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container, weight &

REF 941816 Needle with shoulder 2.5 g, stainless steel

REF 941737 Cone holder, nickel-plated brass, movable, 47.5 g holder

Additional weight 50 g **REF 941815**

REF 941820 Sample container with base plate REF 21932 Needle 2,5g with certificate

ACCESSORIES (Penetration tests using one-quarter or one-half scale cone equipment - ASTM D 1403)

REF 941742 1/4 scale cone (9.38 g) 1/2 scale cone (37.5 g) REF 941743 **REF 27322** Spatula 30 x 200 mm

REF 9417421 1/4 scale grease worker (manual operation) **REF 9417431** 1/2 scale grease worker (manual operation)

ORDERING INFORMATION

REF 942734

NPN TECH For use on AC 230 V, 50 Hz - 1 A

(W) 260x (D) 320x(H) 540 mm (± 23 kg)

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