

# NPN TECH

## HALF AUTOMATED PENETROMETER



### STANDARDS

ASTM D 5, D 217, D 937, D 1321, D 1403, D 7342, ISO EN 1426, IP 179 and related methods.

### SCOPE

These test methods cover different procedures of measurement using distinct accessories. It includes the determination of the penetration of semi-solid and solid bituminous materials. It measures the consistency of lubricating greases. It can be applied to petrolatum, cosmetic, food and cream as an empirical measure of consistency but also on waxes derived from petroleum by measurement of the extent of penetration.



« RUGGED AND RELIABLE  
FOR THE REPEATABILITY  
OF ITS ANALYSES »

## TECHNICAL FEATURES

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- 4 speeds ( 3 downwards and 1 upward)
- 4 programmable positions
- Flexible led lamp and magnifying glass
- Precise stepper motor with accuracy of 0.05 mm
- Automatic surface detection (options)
- Programmable penetration time
- Optoelectronic detection of depth penetration



## APPLICATION

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- Bitumen
- Lubricating greases
- Petrolatum
- Cosmetic
- Food
- Waxes

## SOFTWARE FEATURES



- Integrated software
- Possibility to program the parameters
- Memory : 10 results  
20 tables
- Parameters to set :
  - Operating mode (bitumen or grease / manual or automatic)
  - Pause time
  - Penetration time
  - Limits of penetration
  - Quantity of determination

## CALIBRATION

The calibration kit will help you verifying the accuracy of the penetration measurements and laboratory internal quality compliance system. The set includes :

- 1 contact finger
- 1 certified gauge of 20 mm
- 1 certified gauge of 40 mm
- 1 rest block
- 1 connection wire for automatic approach



## RELATED PRODUCT

For the preparation of grease sample, the GWM Classic assist to work the grease used for the preparation of the shear stability test. It is a compact twin-unit automatic grease worker using electronic counter to control the strokes number.



## OPTIONS

- Cryostat
- Transfer bath and support
- Cooling incubator
- Automatic approach kit on conductive products
- Automatic holder for hard bitumen
- Accessories kit specific for your application (on request)



# SCOPE OF DELIVERY

942734

NPN Tech is delivered with :

- Flexible magnifying lens (P/N 9417343)
- Flexible LED lamp (P/N 9427342)
- Needle holder (P/N 941737)
- AC power cable

*Accessories kit and options according to your application must be ordered separately.*

**Site requirements:**

- Power supply : AC 240 V, 50 Hz - 1 A
- Dimensions : (W) 250 x (D) 330 x (H) 720 mm
- Weight : 16 kg

# SUMMARY

Temperature measurement	-10 to 150°C	Overflow indicator	Beep and visual
Temperature unit	°C or °F	Range	0 to 75 mm
Storage	-20 to +55°C	Results	0.1 mm
Humidity Operating	30 to 80% Rh max	Displayed resolution	0.01 mm
Penetration Time	Up to 999 min	Accuracy	± 0.05 mm
Pause	Programmable	Memory	10
Limits	Programmable	Tables	20
		(user specifications)	

