

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

- 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

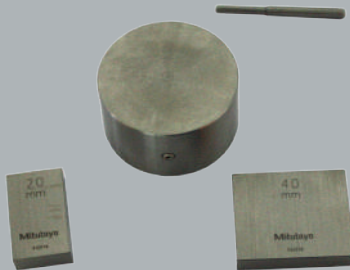
- Bitumen
- Lubricating greases
- Petrolatum
- Cosmetic
- Food
- Waxes

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)	



CONTACT : sales@normalab.com

Normalab FRANCE SAS
175, rue Claudie HAIGNERE
76190, Valliquerville
Tel. : +33 232.700.100
Fax : +33 232.704.732

DISTRIBUTED BY

STANDARDS KITS

References	Description	ASTM D 5	ASTM D 217	ASTM D 937	ASTM D 1321	ASTM D 1403
REF 941810	Outfit for penetration of bituminous material including: 1 non-certified needle 2.5 g, 1 holder, 50 g weight, 1 container 55x35 mm & 1 container 55x70 mm	o				
REF 518063	Standard needle 2.5 g (up to 350-1/10mm) without certificate	o				
REF 21932	Standard needle 2.5 g (up to 350-1/10mm) with UKAS Certificate	o				
REF 9418140	Long needle 2.5 g (up to 500-1/10mm)	o				
REF 941737	Needle holder, 47,5 g - total length: 150 mm - movable - made of nickled brass & stainless steel	o				
REF 941812	Additional weight 100 g	o				
REF 941815	Additional weight 50 g	o			o	
REF 21712	Pack of 300 sample containers single use, 55x35 mm	o				
REF 518066	Sample container, 55x35 mm, made of aluminium	o				
REF 9418181	Sample container, 55x70 mm (>200 1/10mm), made of aluminium	o				
REF 9418191	Sample container, 55x57 mm (up to 500 1/10mm), made of aluminium	o				
REF 941736	Outfit for consistency of lubricating grease comprising: 1 cone 102.5 g, 1 holder, 1 container 76x63 mm		o			
REF 941738	Standard cone 102.5 g		o	o		
REF 941737	Cone holder, nickel-plated brass, movable, 47.5 g		o	o	o	
REF 9417411	Sample container, 76x63 mm		o			
REF 941735	Outfit for consistency of petroleum, comprising: cone, container and holder			o		
REF 9417412	Sample container 100x65 mm with cover			o		
REF 941811	Outfit for consistency of petroleum waxes comprising: shouldered needle, container, weight & holder				o	
REF 518081	Needle with shoulder 2.5 g, stainless steel				o	
REF 941820	Sample container with base plate				o	
REF 941742	1/4 scale cone (9.38 g) (including cone holder)					o
REF 941743	1/2 scale cone (37.5 g) (including cone holder)					o
REF 9417421	1/4 scale grease worker (manual operation)					o
REF 9417431	1/2 scale grease worker (manual operation)					o