

# Penetrometer

PNR 12



# PNR 12: Versatility in Consistency

Driven by decades of experience in consistency testing, Anton Paar's penetration tester, PNR 12, is optimally tailored.

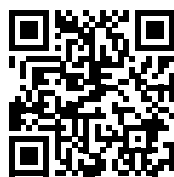
Simple handling delivers precise results down to 0.1 PU in just a few seconds.

PNR 12 meets a wide range of international standards, such as ASTM, ISO, EN and DIN. Its broad application range from high-viscosity liquids (e.g. honey) to solids (e.g. bitumen) lets you determine the consistency of many materials with just one instrument.

What you can expect:

- Quick, trustworthy results with automatic surface detection
- Simple operation
- Classify any samples for consistency with our range of test sets
- Comply with pharmacopeia

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[www.anton-paar.com/  
apb-pnr-12](http://www.anton-paar.com/apb-pnr-12)



## Data integration

Transfer your test results into your LIMS or AP Connect to monitor your product quality.

## Straightforward operation

Whether you want to use one of the preset standard methods or customize your individual testing program, PNR 12's intuitive user interface supports you to get the results you require.

## Automatic surface detection

Eliminate errors whilst maximizing automation:

- The patented force sensor plunger (optional) automatically detects the surface of the sample, even when the surface is submerged in water
- An optional sensor hook can be used with electrically-conductive samples to detect the surface automatically

## Tailored to lab environments

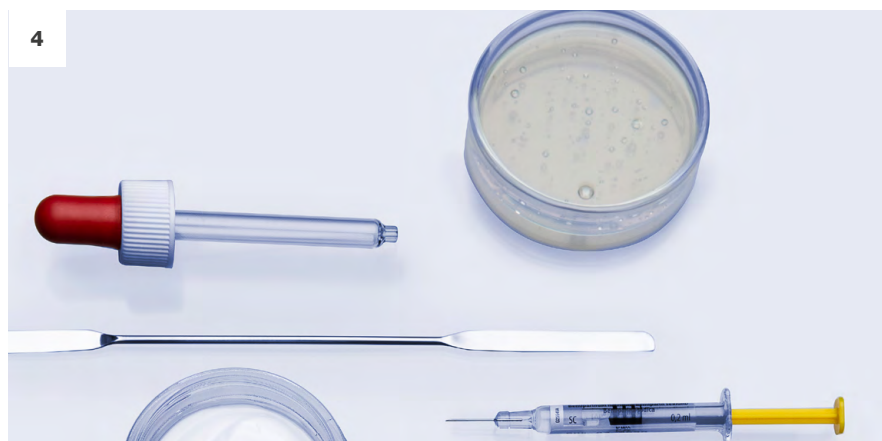
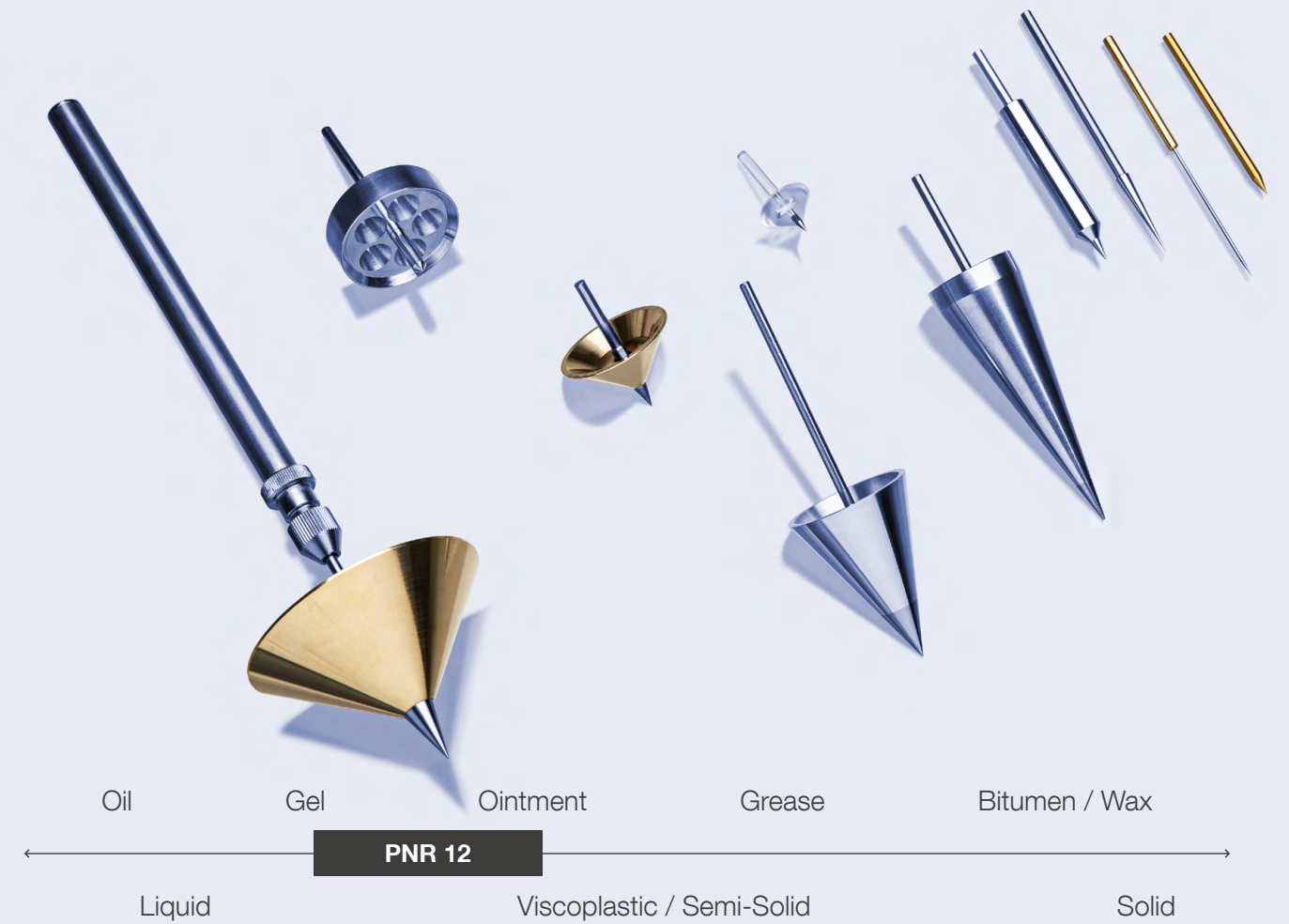
The jog wheel program navigation facilitates instrument operation, even with protective gloves on.



# One Device, Many Applications

Anton Paar's penetrometer PNR 12 automatically measures a material's resistance against being pierced by a specifically-shaped test body. PNR 12 offers a full range of test kits and accessories for the widest consistency and plasticity determination. Measure pasty, creamy, semi-solid, or highly viscous samples across all industries.

The harder the test material, the more pointed and needle-like the test body needs to be. Anton Paar guarantees the widest application range across all industries and sample types with a full portfolio of test bodies. Accessories range from needles for hard samples to disks or flat cones for semi-solids. Accessories are designed according to specific standards to cover the complete range of application and sample consistencies.



- 1 **PETROLEUM INDUSTRY**
- 2 **COSMETICS INDUSTRY**
- 3 **FOOD INDUSTRY**
- 4 **PHARMACEUTICAL INDUSTRY**
- 5 **CHEMICAL INDUSTRY**
- 6 **BUILDING MATERIALS INDUSTRY**

# Perfect Consistency of Creams and Pharmaceutical Ointments

US and European Pharmacopeia conventions not only describe procedures that measure the identity, quality, and purity of medicinal or food ingredients, but also those that define consistency measurement via the penetration method.

Anton Paar provides a wide range of testing equipment for PNR 12 in accordance with US and European pharmacopeia standards, which describe procedures for measuring consistency using the penetration method across various samples such as petrolatum, carboxymethylcellulose sodium paste, microcrystalline wax, vaselinum album, and more. This includes optional instrument qualification and PQP-S documentation to support the implementation of the instrument in your laboratory.



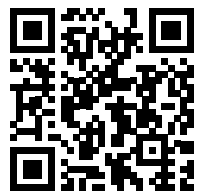
## PNR 12



Measuring range	0 mm to 80 mm (plunger-dependent)
Max. test load	2 kg
Resolution	±0.01 mm
Test duration	0.1 s to 999,999 s
Start delay	up to 9,999 s
Interfaces	USB, LAN, LIMS compatibility, optional AP Connect Instrument Adapter
Power supply	100 V to 240 V, 50 Hz/60 Hz, 1.5 A, 70 W
Dimensions	300 mm x 380 mm x 570 mm (W x D x H)
Anti vibration table included	Yes, active electronic system
Weight	11 kg

Reliable.  
Compliant.  
**Qualified.**

FIND OUT MORE



[www.anton-paar.com/service](http://www.anton-paar.com/service)

Our well-trained and certified technicians are ready to keep your instrument running smoothly.



Maximum uptime



Warranty program



Short response times



A global service network

