

**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.

**PENETROMETER – MANUAL MODEL  
- 941731 -**

**MAIN CHARACTERISTICS**

Manual penetrometer including a large table on levelling feet with spirit level, a manual release mechanism and a dial indicator in  $\mu 0.01$  mm. Outfit comprising needle, holder, sample containers & 50 g weight to be ordered separately.

**ADDITIONAL ACCESSORIES AND OPTIONS**

<b>REF 27674</b>	Transfer bath, made of glass - to be connected to a water bath
<b>REF 27673</b>	Transfer bath support with holes diameter 165 x 35 mm for 5 containers
<b>REF 29396</b>	Constant temperature water bath (range: -25 to +150°C) - Model RE 1225S -
<b>REF 11504</b>	ASTM thermometer (17 C)
<b>REF 11532</b>	ASTM thermometer (63 C)
<b>REF 11533</b>	ASTM thermometer (64 C)



**ORDERING INFORMATION**

**REF 941731**

(W) 180x (D) 180x (H) 560 mm ( $\pm$  5.6 kg)

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#### **ACCESSORIES AND CONSUMABLES for Bitumen (ASTM D5)**

<b>REF 518063</b>	Standard needle 2.5 g (up to 350 units)
<b>REF 941737</b>	Needle holder 47.5 g (1 supplier with main equipment)
<b>REF 941810</b>	Outfit for penetration of bituminous material, comprising: needle, holder, 50 g weight and 2 containers
<b>REF 941812</b>	Additional weight 100 g
<b>REF 941815</b>	Additional weight 50 g
<b>REF 9418140</b>	Long needle 2.5 g (up to 500 units)
<b>REF 21712</b>	Pack of 300 Sample containers only one use, 55x35 mm
<b>REF 518066</b>	Aluminium container, 55 X 35 mm,
<b>REF 9418181</b>	Aluminium container, 55x70 mm (>200 units)
<b>REF 9418191</b>	Aluminium container, 55x57 mm (up to 500 units)
<b>REF 21932</b>	Standard needle 2.5 g (up to 350 units) with UKAS Certificate



#### **ACCESSORIES (for lubricating greases - ASTM D 217)**

<b>REF 941739</b>	Grease cutter with blade
<b>REF 941736</b>	Outfit for consistency of lubricating grease comprising: 1 cone 102.5 g, 1 holder and 1 container 76x63 mm
<b>REF 941737</b>	Cone holder, nickel-plated brass, movable, 47.5 g
<b>REF 941738</b>	Standard cone 102.5 g
<b>REF 9417411</b>	Sample container, 76x63 mm
<b>REF 27322</b>	Spatula 30x200 mm

**REF 941736**

#### **ACCESSORIES (for consistency of petroleum - ASTM D 937)**

<b>REF 941735</b>	Outfit for consistency of petroleum, comprising: cone, holder and container
<b>REF 941737</b>	Cone holder, nickel-plated brass, movable, 47.5 g
<b>REF 941738</b>	Standard cone 102.5 g
<b>REF 9417412</b>	Sample container 100 x 65 mm with cover
<b>REF 518063</b>	Standard needle 2.5 g (up to 350 units)
<b>REF 518081</b>	Needle with shoulder 2.5 g, stainless steel



**REF 941811**

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

<b>REF 941811</b>	Outfit for consistency of petroleum waxes comprising: shouldered needle, container, weight & holder
<b>REF 941816</b>	Needle with shoulder 2.5 g, stainless steel
<b>REF 941737</b>	Cone holder, nickel-plated brass, movable, 47.5 g holder
<b>REF 941815</b>	Additional weight 50 g
<b>REF 941820</b>	Sample container with base plate
<b>REF 21932</b>	Needle 2,5g with certificate

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

<b>REF 941742</b>	1/4 scale cone (9.38 g)
<b>REF 941743</b>	1/2 scale cone (37.5 g)
<b>REF 27322</b>	Spatula 30 x 200 mm
<b>REF 9417421</b>	1/4 scale grease worker (manual operation)
<b>REF 9417431</b>	1/2 scale grease worker (manual operation)

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