

DETERMINATION OF COHESION OF COLD MATERIALS



PRINCIPLE

The test method is used to determine the minimum cohesion of cold-poured bituminous materials in order to determine the setting time and the time to recirculation. The setting corresponds to the end of the irreversible process of coalescence of the emulsion. The time taken thus corresponds to the time between the casting of the material and the setting.

Twisting torque is measured on five samples of the same cold-cast material at appropriate intervals after casting.

STANDARD

EN 12274-4 / ASTM D3910 / ISSA TB139

PRODUCTS

Label	Description	Reference
Cohesion tester – Complete set EN 12274-4		F044.153.0010
	<i>Complete kit for determining the cohesion of cold materials</i> Set including <ul style="list-style-type: none"> → Robust frame 3 mm thick in stainless steel → Double acting, double stem cylinder, 8 mm rod with 76 mm stroke → Pressure regulator with manual potentiometer and 0-10 bar pressure gauge → Distributor 5/2, 2 positions with mechanical control and manual switch → Stainless steel pneumatic quick coupling, fixed on rear frame Test accessories included <ul style="list-style-type: none"> → 1 stainless steel foot Ø28.5 mm with 2 neoprene pads adjusted, shore hardness 60 ± 5 → 1 Torque wrench with capacity 35 kg / cm → Calibration Sandpaper P100 (x5) and P220 (x5) → OTTAWA calibration sand (500g) → 10 sheets pre-cut of bituminous felt (700 ± 70 g / m²) 	
	Plate Type A – 140x140 mm, height 6.3 mm Ø. Top. 60 Ø. Inf. 60.3 mm	F044.153.0012
	Plate Type B – 140x140 mm, height 10 mm Ø. Top. 60 Ø. Inf. 60.4 mm	F044.153.0020
	Plate Type C – 200x200 mm, height 13 mm Ø. Top. 90 Ø. Inf. 90.6 mm	F044.153.0021
Cohesion tester – Complete set ASTM D3910 / ISSA TB139		F044.153.0011
	Set with the same characteristics as the EN model Test accessories included <ul style="list-style-type: none"> → 1 stainless steel foot Ø25.4 mm with 2 neoprene pads adjusted, shore hardness 60 ± 5 → 1 Torque wrench with capacity 35 kg / cm → Calibration Sandpaper P100 (x5) and P220 (x5) → OTTAWA calibration sand (500g) → 10 sheets pre-cut 100x100 mm of bituminous felt (700 ± 70 g / m²) → 10 molds ASTM Ø70 mm (5 molds height 6.3 mm + 5 molds height 10.5 mm) 	
	Set of 10 molds in stainless steel for ASTM D3910 - ISSA TB-139 <ul style="list-style-type: none"> → 10 molds Ø70 mm, height 6 mm (x5) and height 10 mm (x5) 	F044.153.0013

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