

Setting Time & Consistency

TM-202

Gillmore Needle Apparatus

Setting time

ASTM C266

Gillmore needle apparatus to ASTM C266 for the initial and final setting time of hydraulic cement paste, with two weighted stainless steel needles.

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Description

Measures the initial and final setting time of hydraulic cement paste by the Gillmore method of ASTM C266. A pat of paste is moulded on a flat plate and the two weighted needles are lowered onto it at intervals. The paste has reached initial set when it carries the light needle without a visible mark, and final set when it carries the heavy needle the same way.

Both stainless steel needles move vertically in a guide frame on a cast base. Their tips are cut flat and square to the rod.

Supplied ready for use with operating manual and test certificate. Contact us for configuration options, accessories and calibration services.

Technical specifications

Initial needle	113.4 ± 0.5 g, tip 2.12 ± 0.05 mm dia
Final needle	453.6 ± 0.5 g, tip 1.06 ± 0.05 mm dia
Tip length (both)	4.8 ± 0.5 mm
Needle material	Stainless steel, flat square tips
Test pat	76 ± 13 mm base, 50 ± 13 mm top, 13 ± 3 mm thick at centre