

Abrasion

TG-205

Deval Abrasion Testing Machine

Abrasion value

IS 2386-4

Motorised Deval machine with cast iron cylinders set at 30 degrees, for the abrasion value of coarse aggregate to IS 2386 (Part 4).

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Description

The machine turns one or more hollow cast iron cylinders, each closed at one end and fitted with a tight iron cover at the other. Each cylinder is 200 mm in diameter and 340 mm deep inside, and sits on the shaft at 30 degrees to its axis of rotation, so the sample and charge tumble end to end as it turns.

Each test uses an abrasive charge of 6 cast iron or steel spheres, about 48 mm in diameter and 390 to 445 g each, weighing 2500 ± 10 g in total. After the run, the sample is sieved on a 1.70 mm IS sieve.

The machine runs on a 3-phase AC supply, 50 to 60 Hz.

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

Technical specifications

Cylinders	Cast iron, 200 mm dia × 340 mm deep (inside)
Cylinder angle	30° to the axis of rotation
Abrasive charge	6 spheres, ~48 mm, 2500 ± 10 g
Test sieve	1.70 mm IS
Power	3-phase AC, 50–60 Hz