Aggregate Impact Tester

Year of Purchase: 2020
Cost: 0.12 Lac

Experiment: for determining the aggregate impact value and has been designed in accordance with IS:2386 (Part 4), IS:9377

The sturdy construction consists of a base and support columns to form a rigid frame work around the quick release trigger mechanism to ensure an effective free fall of the hammer during test. The free fall can be adjusted through 380 ± 5 mm. The hammer is provided with a locking arrangement.

Specification

Product Type	**Impact Testing Machine**
Model Name/Number	DM-200
Automation Grade	Manual
Material	MS
Internal diameter	102mm
Depth	50mm
Thickness	6.3mm

Description

It consists:

- A testing machine weighing 45 to 60 kg and having a metal base with a painted lower surface of not less than 30 cm in diameter. It is supported on level and plane concrete floor of minimum 45 cm thickness. The machine should also have provisions for fixing its base.
- A metal hammer or tup weighing 13.5 to 14.0 kg the lower end being cylindrical in shape, 50 mm long, 100.0 mm in diameter, with a 2 mm chamfer at the lower edge and case hardened. The hammer should slide freely between vertical guides and be concentric with the cup. Free fall of hammer should be within 380±5 mm.
- A cylindrical metal measure having internal diameter 75 mm and depth 50 mm for measuring aggregates.
- Tamping rod 10 mm in diameter and 230 mm long, rounded at one end.
- A balance of capacity not less than 500g, readable and accurate up to 0.1 g.