

AGGREGATE IMPACT VALUE

BE 49

Is a standard piece of laboratory equipment used in civil engineering and materials testing to evaluate the toughness and impact resistance of coarse aggregates. This test helps determine the suitability of aggregates for use in concrete, road construction, and other applications where aggregates must withstand sudden impacts without excessive breakage.

FOLLOWING STANDARD

IS 2386 (PART IV) 9377 & BS 812-112

KEY FEATURES

Model	Component/Feature	Component/Feature
BE 49-01	Overall Design	Sturdy, rigid framework consisting of a heavy base and support columns. This ensures stability during operation and minimizes vibrations.
BE 49-02	Hammer	Includes a cylindrical steel hammer (typically 13.5–14 kg) with a quick-release trigger mechanism for precise control. The hammer features a locking arrangement to secure it in position before release.
BE 49-03	Free Fall Adjustment	Adjustable height for the hammer's free fall of 380 ± 5 mm, allowing for consistent impact energy delivery as per IS standards.
BE 49-04	Test Cylinder	Accommodates a metal measure (75 mm diameter, 50 mm depth) filled with aggregates for tamping and impact application.
BE 49-05	Temping Rod	Often includes a tamping rod (16 mm diameter, 45–60 cm long),



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