# AGGREGATE CRUSHING VALUE

## BE 50

The Aggregate Crushing Value (ACV) Apparatus is a standard testing device used in civil engineering and materials science to evaluate the resistance of coarse aggregates to crushing under a gradually applied compressive load. This test helps determine the suitability of aggregates for use in concrete, asphalt, and road construction by providing a relative measure of their strength and durability. Aggregates with a lower crushing value indicate better quality for load-bearing applications.

## FOLLOWING STANDARD

IS 2386 (Part IV) or ASTM equivalents. BS 812 or IS 9376 1979.

It's two type available Big size and Small size.

## DISCRIPTION

| MODEL | COMPONENT | DETAIL |
|---|---|---|
| BE 50-1-A | Cylindrical Cell | 150 ± 0.5 mm ID x 130 to 140 mm height |
| BE 50-1-B | Plunger | 148 ± 0.5 mm dia x 100 to 115 mm height |
| BE 50-1-C | Base Plate | 200 to 230 mm square x 6 mm thickness |
| BE 50-1-D | Tamping rod | 16 mm dia x 450 to 600 mm length |
| BE 50-1-E | Metal measure | 110 ± 0.5 mm ID x 180 ± 0.5mm height |
| **SMALL SIZE CRUSHING VALUE** | | |
| BE 50-2-A | Cylindrical Cell | 75 mm Height: ~90-100 mm |
| BE 50-2-B | Plunger | Diameter: ~73 mm (to fit cylinder snugly) Height: ~70-90 mm |
| BE 50-2-C | Base Plate | Diameter: 75-100 mm Thickness: 10-15 mm |
| BE 50-2-D | Tamping rod | Diameter: 8 mm Length: 300 mm Rounded ends |
| BE 50-2-E | Metal measure | Diameter: 57 mm Depth/Height: 90 mm |