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AGGREGATE CRUSHING VALUE APPARATUS

As Per IS 9376 - 1979 & IS 2386 (Part IV) - 1963.

Useful to measure resistance of aggregates to crushing under a gradually applied compressive load.



NOTE: On special request **AIC-ACV-300**. **AGGREGATE CRUSHING VALUE APPARATUS**. 300mm DIA (For 1" to 2" Size aggregates) also can be supplied.

PARTICALUR	AIC-ACV-150	AIC-ACV-075
Useful for Aggregate Size	3/8" to 3/4"	1/8 to 1/4"
Open Ended Hardened Steel Cylinder	150±0.5mm Dia 130-140mm High 15mm Wall Thickness	75±0.5mm Dia 70-80mm High 10mm Wall Thickness
Steel Base Plate	200-230mm2 6mm Thickness	110-115mm2 6mm Thickness
Steel Plunger	148±0.5mm Dia 100-115mm High	73±0.5mm Dia 65-75mm High
Steel Cylindrical Metal Measure Duly finished. (Optional)	AIC-ACV-CMM-115. 115±0.5mm Dia 180±0.5mm High	AIC-ACV-CMM-060. 60±0.5mm Dia 90±0.5mm High
Steel Tamping Rod Duly chromed. (Optional)	AIC-ACV-TR16450. 16mm Dia 450-600mm Long	AIC-ACV-TR8300. 8mm Dia 300-350mm Long

AGGREGATE IMPACT TEST APPARATUS

As Per IS 9377 - 1979 & IS 2386 (Part IV) - 1963.

Instrument is to determine the Impact Value of Coarse Aggregate to sudden shock or Impact.

AIC-AIV-BL380 AGGREGATE IMPACT TEST APPARATUS WITH BLOW COUNTER

Consist of a base weighing between 22-30kg having lower surface of 30cm 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. An automatic blow counter is fitted on the top of the apparatus.

A Metal Tup (Hammer) of 13.75 ± 0.25 kg, provided with a locking arrangement. The lower end is of cylindrical shape of 100mm Dia x 50mm Long with 2mm chamfer at the lower end and case hardened.

STANDARD ACCESSORIES

AIC-AIC-CUP102 AGGREGATE IMPACT TESTING CUP

To test the aggregate sample for aggregate impact value. 102mm Dia x 50mm Depth.

AIC-AIV-CUP75 AGGREGATE IMPACT MEASURING CUP

To measure the aggregate sample for testing aggregate impact value. 75mm Dia \times 50mm Deep

AIC-TR-10230 TAMPING ROD FOR AGGEGATE IMPACT TEST

It is used for tamping aggregates during conducting aggregate impact value test. $10 \text{mm} \; \text{Dia} \times 230 \text{mm} \; \text{Long}, \; \text{rounded at one end}.$





BULK DENSITY CYLINDRICAL METAL MEASURES SET

As Per IS 2386 (PART III) - 1963.

These measures are used to determine the unit weight or bulk density and voids of aggregate. This set of three cylindrical metal measures are made from precisely machined mild steel of heavy gauge sheets and welded with handles.



OPTIONAL ACCESSORIES

AIC-TR-16600 TAMPING ROD

Size: 16 mm Dia x 600 mm Long

AIC-BDM-S031530

BULK DENSITY CYLINDRICAL METAL MEASURES SET

Set of three measures having capacities of 3, 15 and 30Ltr. respectively.

PARTICALUR	AIC-BDM-03. Bulk Density Cylindrical Metal Measure. 3 Ltr.	AIC-BDM-15. Bulk Density Cylindrical Metal Measure. 15 Ltr.	AIC-BDM-30. Bulk Density Cylindrical Metal Measure. 30 Ltr.
Size	150mm Inner Dia 170mm Inner Height	250mm Inner Dia 300mm Inner Height	350mm Inner Dia 310mm Inner Height
Used to test largest size of	≤ 4.75mm	4.75 to 40mm	> 40mm

NOTE: On special request **AIC-CMM-5L.** METAL MEASURE. 5ltr, **AIC-CMM-10L.** METAL MEASURE 10ltr, **AIC-CMM-20L.** METAL MEASURE 20ltr can be also supplied.

DENSITY BASKET

As Per IS 2386 (PART III) - 1963.

Used to determine specific gravity, apparent specific gravity and water absorption of aggregates larger than 10mm.

AIC-DB-2020 DENSITY BASKET

This Density Baskets is of 20cm Dia x 20cm height, fitted with galvanised wire mesh of 6.3mm size with handle







These Buoyancy Balances useful to find out specific gravity, apparent specific gravity and water absorption of aggregate and density of hardened concrete.

Consists of an iron angle frame covered with M.S. sheets and front door made from see through acrylic sheet. An Electronic Table Top Balance with having an arrangement to suspend Density Basket or Concrete Cube. A watertight container is provided on a mechanical pedestal jack arrangement, which is fixed inside the frame.

AIC-SGW-6K BUOYANCY BALANCE. 6Kg

Complete with an Electronic Table Top Balance having capacity of 6Kg with 0.5gm least count (AIC-EWT-6K) with Sealing & Stamping from Weights & Measurement Department, Government of Maharashtra and calibration certificate from manufacturers.

AIC-SGW-10K BUOYANCY BALANCE. 10Kg

Complete with an Electronic Table Top Balance having capacity of 10Kg with 0.5gm least count (AIC-EWT-10K) with Sealing & Stamping from Weights & Measurement Department, Government of Maharashtra and calibration certificate from manufacturers.



PYCNOMETER



As per IS 2386 (Part III) - 1963.

It is used to determine specific gravity of clays, sand and gravel of size smaller than 10 mm.

AIC-PYC-1K PYCNOMETER

Complete with Cone, Locking Ring with Rubber Seal. Capacity about 1 kg.

ELONGATION / LENGTH GAUGE

As Per IS 2386 (PART I) - 1963.

For determining the elongation index of coarse aggregates.

AIC-ELG-5063 ELONGATION / LENGTH GAUGE

It consists of vertically mounted metal studs on steel plate marked as specified in IS (6.3-10; 10-12.5; 12.5-16; 16-20; 20-25; 25-31.5; 31.5-40; 40-50 and 50-63) mounted on a hardwood base.



FLAKINESS / THICKNESS GAUGE



As Per IS 2386 (PART I) - 1963.

For determining the Flakiness index of coarse aggregates.

AIC-FLG-6363 FLAKINESS / THICKNESS GAUGE

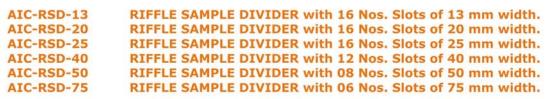
It is constructed of heavy gauge steel sheet with chromium plating having slots with marked sizes of 63-50; 50-40; 40-31.5; 31.5-25; 25-20; 20-16; 16-12.5, 12.5-10 and 10-6.3.

RIFFLE SAMPLE DIVIDER

As Per IS 1607 - 1960.

These Riffle Sample Dividers are designed for rapid collection of true representative samples from aggregates, sand and fillers.

Consist of a metal box fitted with a series of chutes of equal width, which discharges the material alternatively in opposite directions into separate pans. The chutes of the riffle are steep enough to allow rapid following of the material.









LOS ANGELES ABRASION TESTING MACHINE

As Per IS 10070 - 1982 & IS 2386 (PART IV) - 1963.

Used to determine the resistance to wear of small size of coarse aggregates and crushed rock.

AIC-LAT-700 LOS ANGELES ABRASION TESTING MACHINE

The machine consist of a hollow cylinder of Steel, closed at both ends, having an inside Diameter of 700mm and inside length of 500mm. The opening shall be closed dust tight with a removable bolted cover in place. A detachable shelf, which extends through the drum catches the abrasive charge and does not allow it to fall on the cover. The drum is rotated at a speed of 30-33rpm by an electric motor through a heavy-duty reduction gear. It is fitted with counter and starter. A tray for collection of the material and set of 12Nos. hardened steel balls of 48mm Diameter and each weigh between 390-445gm will be supplied with the machine. Fitted with 1 HP, 1440 RPM Motor, Suitable for operation on Three Phase, 440 Volts, 50 Hz.

PULVERISER

Laboratory Pulveriser is a disc type grinder, designed for grinding material to produce a fine mesh sample in one operation. It is a self contained grinder furnished with a rotating disc having a planetary movement in a vertical plane. This feature gives added life to the wearing parts and delivers a product to uniform fineness.

The pulveriser will reduce 1 pounds sample of quartz type material to 100mesh in 1 minute. Maximum feed size is ¼ inch grinding is done between two discs, one of which is stationary and the other revolving eccentrically at high speed. The apparatus is supplied with heat treated disc of 7 inches in diameter B9 adjustment for size of product may be made by use of a convenient hand wheel while the machine is in operation or at rest. A self-locking device holds the hinged grinding chamber in place and affords easy and quick access to the grinding chamber for removal of ground samples and for cleaning.



AIC-PUL-175 PULVERISER

The pulverizer is supplied complete with a 3 H.P. motor, starting switch, V-belt puly drive and mounting. Electrical requirements are 440 volts, 3 phase A.C.

Disc diameter : 175mm.

Maximum feed size : 8 mm (approx) Size of finished.

Product : 72 mesh(212 microns).

LABORATORY JAW CRUSHER



Jaw Crusher is designed to speed up the crushing of aggregate, ores, minerals, coal, cock, chemicals and other similar materials. It is compact and of rugged construction for general laboratory or small pilot plant operations.

Two jaws of manganese steel are provided in the jaw crusher. The moveable jaw produces two blows for every revolution, thus reducing over sizing to a minimum. A combination of forward and downward and strokes with a rocking action exerts pressure on the jaws. A hopper is provided at the top for feeding materials. The smooth jaws ensure a uniform product and easy cleaning is possible.

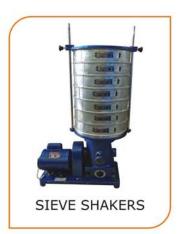
Complete with 3 HP, 440V, 3Phase, 50Hz Electric Motor, Starter, Triple 'V' belt pulley drive and mounting frame.

PARTICULAR	AIC-LJC-100150	AIC-LJC-150200	AIC-LJC-200300
Maximum size of feed	50mm (approx).	25-75mm (approx).	50-100mm (approx).
Product discharge Size	6 to 18mm (adjustable).	12 to 25mm (adjustable).	12 to 30mm (adjustable).
Capacity (Depends upon material).	80kg/hr. approx.	250kg/hr approx.	400kg/hr approx.

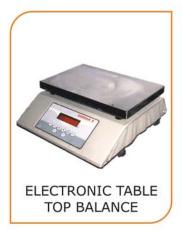








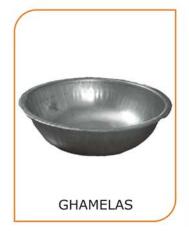






























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