

TILE ABRASION TEST MACHINE

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This description outlines the specifications and components of an abrasion testing machine used to evaluate the wear resistance of tile samples. The machine tests tile samples by pressing them under a specified load against a grinding path sprinkled with abrasive powder. Sample of 7.06 cm x 7.06 cm is pressed under a specified load against a grinding path strewn evenly with an abrasive powder revolving at the rate of 30 ± 1 r.p.m. At the end of 100 revolutions of the disc. The grinding path, mounted on a disc, rotates at 30 ± 1 rpm. Each tile sample undergoes 100 revolutions on one side, followed by 100 revolutions on the second parallel side. It operates on a 415 V, 50 Hz, 3-phase AC supply but does not include abrasive powder or a thickness-measuring device.

The machine includes:

- A replaceable grinding path on a rotating disc, enclosed in a circular tray.
- A bracket to hold the tile specimen.
- A counter-balanced lever for applying the load.
- A funnel for evenly distributing abrasive powder.
- An automatic pre-set revolution counter.
- A 7.5 kg weight for loading.

FOLLOWING STANDARD

IS 1237-1980, IS 1706 – 1972



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