



## DETERMINATION OF RESISTANCE TO THERMAL SHOCK- (BIS 13630-5)-(800 X 1200 MM TILE)(WATER IMPREGATION & NON-WATER IMPREGATION)(W/A>10 & W/A<10)

### Compliance standard

EN ISO 10545-9, ASTM C484, IS 13630 (Part-5)

### Principle

Determination of resistance to thermal shock of a whole tile by cycling 10 times between the temperatures of cold water and a temperature just above that of boiling water. Usually tests are carried out between 15 °C and 145 °C.

### Salient features

- The machine is capable to test sample up to 1200 X 800 mm.
- This low temperature bath is designed to match the IS 13630 (part 5)
- Capable to maintaining the temperature at 15 °C ± 5 °C.
- This water bath is ideal for both the tests 1) Testing with immersion and 2) Testing without immersion.
- There are two separate chambers for Testing with and without immersion.
- In case of all tiles having water absorption not greater than 10 percent, the bath is not covered and is of sufficient depth to allow the tiles to be placed vertically and immersed completely.
- In case of glazed tiles having water absorption greater than 10 percent, the bath is covered with a 5 mm thick aluminum plate in such a manner that the water directed towards the surface, remains in contact with the plate.
- Covering the aluminum plate is a layer of aluminum grains approximately 5 mm thick with diameter in the range of 0.3 mm to 0.6 mm.
- The water flow rate for both water bath will be 4 liter/min.
- The temperature will be controlled with the PID Controller.
- Double walled construction.
- Inner chamber will be made of S.S-304 Grade material.
- The machine will supply with S.S stand to place the sample vertically without touching one another.



### Note

Following instruments will be required to complete the test. **(Will be supplied at extra cost)**

**Hot air oven of big size.**

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