

TEST METHOD AS PER STANDARDS

ASTM B117 – 11

This method provides a controlled corrosive environment which has been utilized to produce relative corrosion resistance information for specimens of metals and coated metals exposed in a given test chamber.

Sat solution- prepared by adding 5 +/- 1 parts in 95 parts of distilled water so that its PH is maintained in between 6.5 to 7.2 .

SUMMARY OF THE TEST CONDITION

It involves Continuous salt spray test exposure at 35C +/-2C with 95-98 % relative humidity.

The period of exposure shall be as designated by the specifications covering the material or product being tested or as mutually agreed upon between the purchaser and the seller.

INSTRUMENTATION

The salt spray cabinet consists of the basic chamber, an air-saturator tower, a salt solution reservoir, atomizing nozzles, specimen supports, provisions for heating the chamber, and suitable controls for maintaining the desired temperature.

Material of construction shall be such that it will not affect the corrosiveness of the fog.

Before entering the atomizer , the clean, oil free, filtered compressed air shall be passed through saturator tower containing hot water approx. 10 degrees higher than the cabinet temperature .

Suitable collecting devices are glass or plastic funnels having collecting surface area of 80 cm² with the stems inserted through stoppers into graduated cylinders.

The specimens shall be supported or suspended at an angle of $20^{\circ} \pm 5^{\circ}$ from the vertical.

The nozzle or nozzles shall be so directed or baffled that none of the spray can impinge directly on the test specimens.

The temperature within the exposure zone of the closed cabinet, fog collection rate , temperature in atomizing tower , PH of the test solution shall be recorded.

