

TEST METHOD AS PER STANDARDS

ISO 7253

This standard defines the methodology for determining the resistance of different protective coatings to the neutral salt spray fog.

The performance of several coatings in the test should not be considered as a direct guide to the relative corrosion resistance of these coatings in service even under the severe conditions of Salt spray /fog exposure, this method only gives a means of checking that the quality of a paint or paint system is being maintained.

TEST SOLUTION & ITS PH LEVEL

It shall be prepared by dissolving 50 + 5 g/l sodium chloride in distilled or demineralized water & maintain its PH in between 6.5 to 7.2.

SUMMARY OF THE TEST CONDITIONS

It involves Continuous salt spray test exposure at 35C +/-2C with 95-98 % relative humidity. The period of exposure shall be as per advised in the product specifications or as mutually agreed in between the purchaser and the seller.

INSTRUMENTATION

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

The test cabinet volume must be not less than 0.4 m³. In case using bigger volume test cabinets, must meet the conditions of homogeneity and distribution of the spray.

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.

The fog collection should be checked after a minimum exposure period of 24 h of continuous spraying.

The cabinet must be equipped with at least two Fog collection funnels with the stems inserted through stoppers into graduated cylinders having collecting surface area of 80 cm². The collecting vessels shall be placed in the exposure zone of the cabinet where the test pieces are being placed. They shall be placed in such a way so that only fog, and not liquid falling from test pieces or from any part of the cabinet, is collected.

Each test panel exposed in the cabinet at an angle of 20 +/- 5 degree.

The test panels shall be so placed that they do not come into contact with each other or with the cabinet and that the surfaces to be tested are exposed to the salt fog only where it is settling freely.

