

# TEST METHOD AS PER STANDARDS

## ISO 6270-2:2005(E)

The tests are designed to clarify the behavior of the test specimens in humid ambient atmospheres, and to pinpoint any defects in the protection of the test specimens against corrosion.

### SUMMARY OF THE TEST CONDITIONS

Test atmosphere		Cycle duration		Conditions in working chamber after reaching equilibrium	
Type	Code	Test period(s)	Total	Air temperature	Relative humidity
Constant-humidity condensation atmosphere		From warm-up to end of exposure		(40 ± 3) °C	Approx. 100 % with condensation on test specimens
Alternating condensation atmosphere	With alternation of humidity and air temperature	8 h including warm-up	24 h	(40 ± 3) °C	Approx. 100 % with condensation on test specimens
		16 h including cooling down (climatic chamber open or ventilated)		18 °C to 28 °C	Approaching ambient
	With alternation of air temperature	8 h including warm-up	24 h	(40 ± 3) °C	Approx. 100 % with condensation on test specimens
		16 h including cooling down (climatic chamber closed)		18 °C to 28 °C	Approx. 100 % (= saturated)

CH Condensation atmosphere with constant humidity

AHT Condensation atmosphere with alternating humidity and air temperature

AT Condensation atmosphere with alternating air temperature

### INSTRUMENTATION

A vapour-tight climatic cabinet is essential for testing in a warm and humid atmosphere. The climatic cabinet is generally equipped with a water filled floor trough. The water must be filled upto a depth of 10 mm during operation.

Climatic cabinets that are not equipped with water-filled floor troughs shall be fitted out in such a way that adequate formation of condensation water on the test specimens is achieved.

The test specimens shall be arranged in the chamber at any angle greater than or equal to 60° to the horizontal in such a way that they are not in close contact with each other and that they are able adequately to radiate heat.

If the quantity of heat introduced via the water is insufficient to raise the air temperature in the climatic chamber to the required level, then additional heating can be employed.

The climatic chamber shall be provided with a suitable door or other aperture capable of being closed, which allows the climatic chamber to be charged with test specimens and to be ventilated.

