

KES

42% Chloride Magnesium
Corrosion Test of Stainless Steel

KES T – L259

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1. Scope of Application

This regulates stress corrosion crack test method in 42 % chloride magnesium of stainless steel.

2. Test Equipment

2.1 One axis tensional test

- (1) Use one axis tensional tester of ± 1 % precision. Also, use a weight suitable to tolerance.
- (2) Test container should have enough space and back flow condenser to protect condensing.
- (3) Heater should keep solution boiling calmly.

2.2 U type bending tester

- (1) Use glass flask (About 1 l) combined with back flow condenser protecting condensing of solution.
- (2) Heater should keep solution boiling calmly.

3. Test sample

3.1 Tensional test sample

- (1) Sample shall be plate or pipe and standard dimension shall be as follows.

Plate : Thickness 2 mm, width 3 mm, length 30 mm or thickness 4 mm, width 5 mm, length 30 mm

Pipe : Diameter 3 mm or 5 mm, length 30 mm

Dimension of other parts are not decided.

- (2) Cut sample with saw and finish sample to have suitable shape.