

KES

Standard of 5 Percent Sulfuric Acid Test Stainless Steels

KES T – L200

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Contents

1. Scope of Application
2. Purpose
3. Test Equipment
4. Test Sample
5. Test Solution
6. Test Method
7. Data Process
8. Report and Record Keeping
9. Standard of Evaluation

Additional Rule

1. Scope of Application

This shall regulate test method for corrosion by measuring corrosion amount of 5 % sulfur acid solution of austenite stainless steel with molybdenum.

2. Purpose

This shall be for repeatable test result by standardizing corrosion test with 5 % sulfur acid solution out of several corrosion tests for stainless steel.

3. Test Equipment

3.1 For test container, use glass flask (About 1 ℓ capacity) made with glass reverse condenser having enough cooling capacity.

3.2 Use glass supporter with proper shape to keep test sample at center of test solution.

3.3 Heating equipment should be able to keep test solution boiling quietly.

4. Test Sample

4.1 Test sample shall be 10 ~ 30 cm² area and less than half of total area when cut vertical direction to rolling or forging direction. For test sample of cast iron and melting metal, follow each stipulation.

4.2 Cut test sample with saw. Remove effect from cut by grinding cut surface.

4.3 When oxide is attached to sample, remove it with cutting or grinding.

4.4 Polish surface with sandpaper stipulated in KS L 6003 or KS L 6004 successively 600 times and 5 ~ 6 times with new sand paper.

4.5 Remove fat of surface treated sample with proper solution and cleanser (Non-chloride) and dry it.