



Testing Method of SO₂ Gas for Anti Rust Oils

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1. Scope of Application

This shall regulate test method of SO₂ gas out of oil strain test methods for anti rust oil.

2. Purpose

Double Bond which is one component of anti rust oil shall generate gel staining steel plate by responding with S chemicals in air. In addition, rust can happen during long usage by sticking force shortage at stain part.

3. Equipment and Material

(1) Test sample

Follow 3.1 (Test sample) and 5.1.1 (Manufacturing method for clothing sample) of KS M 2109 (General test method for anti rust oil).

(2) Sodium Thiosulfate (Na₂S₂O₃·5H₂O) 10 wt % water solution

(3) Sulphuric acid : 0.2 N

(4) Decicator

4. Test Method

- (1) After defatting cleanly the test sample made according to the clause 3.1 by using gauze, make it dry at the room temperature.
- (2) Deposit the dried sample in test solution and take it out vertically after a minute. Make it dry indoors for 24 hours and cloth sample with anti rust oil.
- (3) Put Sodium Thiosulfate 10 wt % solution about 1ℓ into decicator.
- (4) Fasten the manufactured sample vertically in decicator. Take care that the test sample should not be contact with the Thiosulfate solution.
- (5) Put 0.2 N H₂SO₄ solution 10 mℓ in Sodium Thiosulfate solution. Test can be performed for 6 hours per a injection. When testing more than 6 hours, add 10 mℓ of 0.2 N