AS 2136-1977 (R2018) Method for detecting the susceptibility of copper and its alloys to stress corrosion cracking using the mercurous nitrate test

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Abbreviation
AS 2136-1977
Valid from
31/12/1977

Information provider
SAI Global
Author
Standards Australia
Information type
Australian Standard
Format
PDF

Cited By
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Description

This Standard specifies requirements for the testing reagent and describes two methods of preparation of the reagent. Preparation of test pieces, procedures for carrying out the test and details for the preparation of a test report are given.

Scope

This standard describes a procedure for detecting the susceptibility of copper and copper base alloy products to stress corrosion cracking by immersion of test pieces in an acidified solution of mercurous nitrate.

Notes:

1. The method is not recommended for the testing of assemblies and partial assemblies but such tests are not precluded by agreement.
2. Elapsed time following removal of the test piece from the test solution and subsequent examination should be specified in the product specification.
3. Chemical reagents specified in this standard are highly toxic and should be handled with care. The use of rubber gloves is advisable to prevent contact with the skin.
4. Mercury and mercury vapour are definite health hazards; equipment for their detection is recommended.
5. Volatilization of mercury should only be carried out in a well-ventilated exhaust booth.

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  AS 2136-1977 is cited by AS 1357.2-2005 (2015) Valves primarily for use in heated water systems. Part 2: Control valves

- AS 1589-2001 (Reconfirmed 2018)

  AS 2136-1977 is cited by AS 1589-2001 (R2018) Copper and copper alloy waste fittings

- AS 3688-2005

  AS 2136-1977 is cited by AS 3688-2005 Water supply - Metallic fittings and end connectors

- AS/NZS 2845.1:2010

  AS 2136-1977 is cited by AS/NZS 2845.1:2010 Water supply - Backflow prevention devices - Part 1: Materials, design and performance requirements

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