

JIS

JAPANESE INDUSTRIAL STANDARD

**Testing method for
corrosivity of industrial water**

JIS K 0100^{—1990}

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by

Japanese Standards Association

In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

Testing method for corrosivity of industrial water K 0100-1990

1. Scope

This Japanese Industrial Standard specifies the testing method to check the corrosivity of industrial water used in a plant.

Additionally, this testing method can be used to test the effect of corrosion inhibitors and the anticorrosivity of metallic material against industrial water.

- Remarks 1. In the case of a heating surface of a heat exchanger, this testing method cannot be applied because of its different corrosivity than that of test pieces.
2. In the case of the measurement of the flow rate under the testing condition mentioned in testing method, JIS K 0094 shall be applied.

JIS K 0101 shall be applied for tests such as temperature, electric conductivity, pH, dissolved oxygen, and so on.

3. The corrosivity test for the closed cooling water system of an internal combustion engine shall be carried out in accordance with JIS K 2234.
4. The applicable standards in this Standard are as follows.

JIS G 3101-Rolled Steel for General Structure

JIS G 3141-Cold Rolled Carbon Steel Sheets and Strip

JIS K 0094-Sampling Methods for Industrial Water and Industrial Waste Water

JIS K 0101-Testing Methods for Industrial Water

JIS K 2234-Engine Antifreeze Coolants

JIS R 6251-Abrasive Cloths

JIS R 6252-Abrasive Papers

JIS R 6253-Waterproof Abrasive Papers

2. Summary

This testing method shall be carried out by either weight loss method or polarization-resistance method. In the case of weight loss method, an average corrosion rate (rate of corrosion) during testing period can be obtained from the weight loss by corrosion. In case of the polarization-resistance method, corrosion rate (rate of corrosion) can be obtained at the point of measurement from the electrochemical polarization resistance.