



Designation: **G 123 – 9600**

## **Standard Test Method for Evaluating Stress-Corrosion Cracking of Stainless Alloys with Different Nickel Content in Boiling Acidified Sodium Chloride Solution<sup>1</sup>**

This standard is issued under the fixed designation G 123; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

### **1. Scope**

1.1 This test method describes a procedure for conducting stress-corrosion cracking tests in an acidified boiling sodium chloride solution. This test method is performed in 25 % (by *mass*) sodium chloride acidified to pH 1.5 with phosphoric acid. This test method is concerned primarily with the test solution and glassware, although a specific style of U-bend test specimen is suggested.

1.2 This test method is designed to provide better correlation with chemical process industry experience for stainless steels than the more severe boiling magnesium chloride test of Practice G 36. Some stainless steels which have provided satisfactory service

---

<sup>1</sup> This test method is under the jurisdiction of ASTM Committee ~~G-1~~ G01 on Corrosion of Metals and is the direct responsibility of Subcommittee G01.06 on Stress Corrosion Cracking and Corrosion Fatigue.

Current edition approved ~~Apr. 10, 1996~~, Oct. 10, 1996, 2000. Published ~~June 1996~~, October 2000. Originally published as G 123 – 94. Last previous edition G 123 – 946.