

## Standard Test Method

# Cathodic Disbondment Test for Coated Steel Structures Under Cathodic Protection

This NACE International (NACE) standard represents a consensus of those individual members who have reviewed this document, its scope, and provisions. Its acceptance does not in any respect preclude anyone, whether he or she has adopted the standard or not, from manufacturing, marketing, purchasing, or using products, processes, or procedures not in conformance with this standard. Nothing contained in this NACE standard is to be construed as granting any right, by implication or otherwise, to manufacture, sell, or use in connection with any method, apparatus, or product covered by letters patent, or as indemnifying or protecting anyone against liability for infringement of letters patent. This standard represents minimum requirements and should in no way be interpreted as a restriction on the use of better procedures or materials. Neither is this standard intended to apply in all cases relating to the subject. Unpredictable circumstances may negate the usefulness of this standard in specific instances. NACE assumes no responsibility for the interpretation or use of this standard by other parties and accepts responsibility for only those official NACE interpretations issued by NACE in accordance with its governing procedures and policies which preclude the issuance of interpretations by individual volunteers.

Users of this NACE standard are responsible for reviewing appropriate health, safety, environmental, and regulatory documents and for determining their applicability in relation to this standard prior to its use. This NACE standard may not necessarily address all potential health and safety problems or environmental hazards associated with the use of materials, equipment, and/or operations detailed or referred to within this standard. Users of this NACE standard are also responsible for establishing appropriate health, safety, and environmental protection practices, in consultation with appropriate regulatory authorities if necessary, to achieve compliance with any existing applicable regulatory requirements prior to the use of this standard.

**CAUTIONARY NOTICE:** NACE standards are subject to periodic review, and may be revised or withdrawn at any time in accordance with NACE technical committee procedures. NACE requires that action be taken to reaffirm, revise, or withdraw this standard no later than five years from the date of initial publication and subsequently from the date of each reaffirmation or revision. The user is cautioned to obtain the latest edition. Purchasers of NACE standards may receive current information on all standards and other NACE publications by contacting the NACE FirstService Department, 15835 Park Ten Place, Houston, TX 77084-5145 (telephone +1 281-228-6200).

Approved 2015-03-14  
NACE International  
15835 Park Ten Place  
Houston, Texas 77084-5145  
+1 281-228-6200

ISBN 1-57590-315-6  
© 2015, NACE International



---

## Foreword

This NACE International standard test method specifies procedures to evaluate cathodic disbondment resistance of the steel structure coating systems under cathodic protection, such as buried or submerged pipeline and tank linings. The standard covers all test specimen geometries and test temperatures. This standard also takes into consideration all test parameters with the goal of the standard to be used during the selection of protective coating systems for use under cathodic protection. This test method is intended for use by facility owners, coating applicators, and coating manufacturers.

This test method was prepared in 2015 by Task Group (TG) 470, “Cathodic Disbondment Test for Coated Steel Structures Under Cathodic Protection.” TG 470 is administered by Specific Technology Group (STG) 03, “Coatings and Linings, Protective—Immersion and Buried Service.” This standard is issued by NACE under the auspices of STG 03.

In NACE standards, the terms *shall*, *must*, *should*, and *may* are used in accordance with the definitions of these terms in the *NACE Publications Style Manual*. The terms *shall* and *must* are used to state a requirement, and are considered mandatory. The term *should* is used to state something good and is recommended, but is not considered mandatory. The term *may* is used to state something considered optional.

---

**NACE International  
Standard Test Method**

**Cathodic Disbondment Test for Coated Steel Structures  
Under Cathodic Protection**

**Contents**

1. General.....	1
2. Definitions.....	1
3. Coating Materials .....	2
4. Sample Preparation.....	2
5. Test Solution.....	3
6. Test Specimens.....	3
7. Apparatus .....	3
8. Test Procedure .....	6
9. Report.....	8
References.....	10
FIGURES	
Figure 1: Typical Test Setup for Attached Cell Method .....	4
Figure 2: Typical Test Setup for Salt Bath Method .....	5
Figure 3: Four Radial Direction Cuts for Evaluation of Disbonded Coating.....	7
Figure 4: Levering Action Used to Evaluate Extent of Disbondment.....	8
TABLES	
Table 1: Example Test Report .....	10

---