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Evaluation of Internal Plastic Coatings for Corrosion Control of Tubular Goods in an Aqueous Flowing Environment

ABSTRACT

This NACE standard test method establishes a test to evaluate and compare the corrosion protection that various internal plastic coatings afford oilfield tubular goods. Using this test method, random sections are tested with flowing water at a given velocity under controlled temperatures for a specified period of time. This standard includes a figure of the typical test apparatus used for this test method. This standard is maintained by Task Group 488.

KEYWORDS

test methods, nonmetallic coatings

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Foreword

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.

This standard test method was written to provide manufacturers, applicators, and users of internal pipe coatings with a method of comparing the performance of these coatings. This method is not intended to correlate with any field performance but merely provides a means of comparing samples of internally coated tubing or line pipe under identical flowing water conditions.

This standard was originally prepared in 1983 by Work Group T-1G-6b of Unit Committee T-1G on Protective Coatings and Nonmetallic Materials for Oilfield Use. It was reviewed by T-1G-6 and reaffirmed by Unit Committee T-1G in 1988, 1993, and 2000, and in 2006 by Specific Technology Group (STG) 33 on Oil and Gas Production—Nonmetallics and Wear Coatings (Metallic). It was made a stabilized standard by Task Group (TG) 488, Review of NACE Standard TM0183 in 2018. This standard is issued by NACE International under the auspices of STG 33.

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