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Preparation, Installation, Analysis, and Interpretation of Corrosion Coupons in Oilfield Operations

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ABSTRACT

This standard outlines procedures for preparing, installing, and analyzing metallic corrosion coupons. Factors considered in the interpretation of results obtained from these corrosion coupons are also included for the use of oil and service industry personnel. This standard is maintained by TG 409.

KEYWORDS

coupons, corrosion, oil and gas.

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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 practice was prepared to encourage the use of uniform and industry-proven methods to monitor mass-loss and pitting corrosion in oilfield operations. This standard outlines procedures for preparing, installing, and analyzing metallic corrosion coupons. Factors considered in the interpretation of results obtained from these corrosion coupons are also included for the use of oil and service industry personnel.

This standard was originally prepared in 1975 by NACE Task Group T-1C-6, a component of Unit Committee T-1C on Detection of Corrosion in Oil Field Equipment, to provide procedures for the preparation, installation, and analysis of corrosion coupons. It was revised by Task Group T-1C-11 in 1986 and by T-1C-23 in 1991. T-1C was combined with Unit Committee T-1D on Corrosion Monitoring and Control of Corrosion Environments in Petroleum Production Operations, and this standard was revised by Task Group T-1D-54 in 1999. It was reaffirmed in 2005 and in 2012 by Specific Technology Group (STG) 31 on Oil and Gas Production—Corrosion and Scale Inhibition. This standard is issued by NACE International under the auspices of STG 31.

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