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## ASTM E309-83 STANDARD PRACTICE FOR EDDY-CURRENT EXAMINATION OF STEEL TUBULAR PRODUCTS USING MAGNETIC SATURATION (R1987)

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Abbreviation ASTM E309-83 Valid from 27/05/1983

Information provider IHS Markit Author American Society of Testing and Materials Information type ASTM Standard Format PDF

Cited By <u>This resource is cited by 2 documents (show Citations)</u>

Description

This practice covers a procedure for applying the eddy current method to detect discontinuities in ferromagnetic pipe and tubing where the article being examined is rendered substantially non-magnetic by the application of a concentrated, strong magnetic field in the region adjacent to the examining coil.

The procedure is specifically applicable to eddy current testing methods using an encircling-coil assembly. However, eddy current techniques that employ either fixed or rotating probe-coil assemblies may be used to either enhance discontinuity sensitivity on the large diameter tubular products or to maximize the response received from a particular type of discontinuity.

This practice is intended for use on tubular products having outside diameters from approximately 1/4 to 10 in. (6.35 to 254.0 mm). These techniques have been used for smaller and larger sizes however, and may be specified upon contractual agreement between the purchaser and the supplier.

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#### • ASTM A106-91

ASTM E309-83 is cited by ASTM A106-91 Specification for seamless carbon steel pipe for high temperature service

### • ASTM A53-90 (Revision 90B)

ASTM E309-83 is cited by ASTM A53-90 Specification for pipe, steel, black and hot-dipped, zinc-coated welded and seamless

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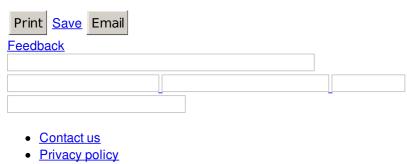
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