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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
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Author
American Society of Testing and Materials
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ASTM Standard
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Cited By
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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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This document is CITED BY:

- [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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