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ASTM E213-86 STANDARD PRACTICE FOR ULTRASONIC EXAMINATION OF METAL PIPE AND TUBING

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Abbreviation

ASTM E213-86

Valid from

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Information provider

IHS Markit

Author

American Society of Testing and Materials

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ASTM Standard

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PDF

Cited By

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Description

This Standard provides a method of macroetch testing steel bars, billets, blooms, and forgings.

Macroetching, which is the etching of specimens for macrostructural examination at low magnifications, is a frequently used technique for evaluating steel products such as bars, billets, blooms, and forgings.

Included in this method is a procedure for rating steel specimens by a graded series of photographs showing the incidence of certain conditions. The method is limited in application to bars, billets, blooms, and forgings of carbon and low alloy steels.

A number of different etching reagents may be used depending upon the type of examination to be made. Steels react differently to etching reagents because of variations in chemical composition, method of manufacture, heat treatment and many other variables. Establishment of general standards for acceptance or rejection for all conditions is impractical as some conditions must be considered relative to the part in which it occurs.

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This document is CITED BY:

- [ASTM A106-91](#)

ASTM E213-86 is cited by ASTM A106-91 Specification for seamless carbon steel pipe for high temperature service

- [ASTM A53-90 \(Revision 90B\)](#)

ASTM E213-86 is cited by ASTM A53-90 Specification for pipe, steel, black and hot-dipped, zinc-coated welded and seamless

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