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Designation: E 1316 – 01

Standard Terminology for Nondestructive Examinations[1]

This standard is issued under the fixed designation E 1316; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

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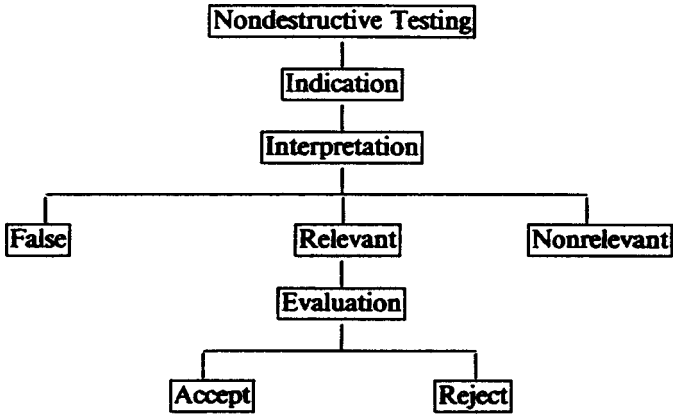
1. Scope

1.1 This standard defines the terminology used in the standards prepared by the E07 Committee on Nondestructive Testing. These nondestructive testing (NDT) methods include: acoustic emission, electromagnetic testing, gamma- and X-radiology, leak testing, liquid penetrant examination, magnetic particle examination, neutron radiology and gaging, ultrasonic examination, and other technical methods.

1.2 Section A defines terms that are common to multiple NDT methods, whereas, the subsequent sections define terms pertaining to specific NDT methods. An alphabetical list of the terms defined in this standard is given in Appendix X1, which also identifies the section in which each term is defined.

1.3 As shown on the chart below, when nondestructive testing produces an indication, the indication is subject to interpretation as false, nonrelevant or relevant. If it has been interpreted as relevant, the necessary subsequent evaluation will result in the decision to accept or reject the material. With the exception of accept and reject, which retain the meaning found in most dictionaries, all the words used in the chart are defined in Section A.



2. Referenced Documents

2.1 *ASTM Standards:*

E 94 Guide for Radiographic Examination[2]

E 127 Practice for Fabricating and Checking Aluminum Alloy Ultrasonic Standard Reference Blocks[2]

E 215 Practice for Standardizing Equipment for Electromagnetic Examination of Seamless Aluminum-Alloy Tube[2]

E 494 Practice for Measuring Ultrasonic Velocity in Materials[2]

E 566 Practice for Electromagnetic (Eddy-Current) Sorting of Ferrous Metals[2]

[1] This terminology is under the jurisdiction of Committee E07 on Nondestructive Testing and is the direct responsibility of Subcommittee E07.92 on Editorial Review.

Current edition approved June 10, 2001. Published August 2001. Originally published as E 1316 – 89. Last previous edition E 1316 – 00a.

[2] *Annual Book of ASTM Standards,* Vol 03.03.

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