INTERNATIONAL

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Standard Guide for Storage of Radiographs and Unexposed Industrial Radiographic Films[1]

This standard is issued under the fixed designation E 1254; 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.

1. Scope

1.1 This guide may be used for the control and maintenance of industrial radiographs and unexposed films used for industrial radiography.

~~1.2The values stated in inch-pound units are to be regarded as the standard. SI units are provided for information only.~~

1.2 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

NOTE 1—For information purposes, refer to Terminology E 1316. The terms stated therein, however, are not specifically referenced in the text of this document.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:* [2]

E 94 Guide for Radiographic Examination

E 746~~Test Method~~ Practice for Determining Relative Image Quality Response of Industrial Radiographic ~~Film~~Imaging Systems

E 1316 Terminology for Nondestructive Examinations

2.2 *ISO Standards:*[3]

~~ISO14523:1999~~ISO 14523 Processed Photographic Materials—Photographic activity test for enclosure materials

~~ISO18901:2002~~ISO 18901 Imaging Materials—Processed silver-gelatin type black-and-white films - Specifications for stability

~~ISO18902:2001~~ISO 18902 Imaging Materials—Processed photographic films, plates, and papers - Filing enclosures and storage containers

~~ISO18917:1999~~ISO 18917 Photography—Determination of residual thiosulfate and other related chemicals in processed photographic materials - Methods using iodine-amylose, methylene blue and silver sulfide

3. Significance and Use

3.1 The provisions of this guide are intended to control the quality of industrial radiographs and unexposed films only and are not intended for controlling the acceptability of the materials or products radiographed. It is further intended that this guide be used as an adjunct to Guide E 94.

3.2 The necessity for applying specific control procedures such as those described in this guide is dependent to a certain extent, on the degree to which a user adheres to good processing and storage practices as a matter of routine procedure.

4. Unexposed Film Storage

4.1 *Unopened Containers*:

4.1.1 *Storage Recommendations*—Any films in containers sealed by the manufacturer and not opened should be stored with the films on edge, whenever possible, to avoid container damage and possible film damage. Storage temperature should be between 40°F ~~[4.4°C]~~(4.4°C) and 75°F ~~[24°C]~~(24°C) at a relative humidity range of 30 to 60 %.

[1] This guide is under the jurisdiction of ASTM Committee E07 on Nondestructive Testing and is the direct responsibility of Subcommittee E07.01 on Radiology (X and Gamma) Method.

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[2] For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* ~~, Vol 03.03.~~volume information, refer to the standard's Document Summary page on the ASTM website.

[3] Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, ~~or http://www.iso.ch.~~http://www.ansi.org.