



Designation: E 390 – 9501

An American National Standard

Standard Reference Radiographs for Steel Fusion Welds¹

This standard is issued under the fixed designation E 390; 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.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This standard provides reference radiographs for steel fusion welds that contain typical discontinuities with varying severity levels in different thicknesses of material.

1.2 There are three volumes of reference radiographs based on seven nominal weld thicknesses as follows:

Vol I—Set of 16 plates (8½ by 11 in.) covering base material up to and including ¼ in. (6.4 mm) in thickness.

Vol II—Set of 29 plates (8½ by 11 in.) covering base material over ¼ to and including 3 in. (6.4 to 76 mm) in thickness.

Vol III—Set of 32 plates (8½ by 11 in.) covering base material over 3 to including 8 in. (76 to 203 mm) in thickness.

1.3 The values stated in inch-pound units are to be regarded as the standard.

1.4 *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:*

¹ These reference radiographs are under the jurisdiction of ASTM Committee E-7 E07 on Nondestructive Testing and are the direct responsibility of Subcommittee E07.02 on Reference Radiographs.

Current edition approved Dec. 10, 1995; 2001. Published February 1996; August 2001. Originally published as E 390 – 69. Last previous edition E 390 – 94a5.