This document is not an ASTM standard and is intended only to provide the user of an ASTM standard an indication of what changes have been made to the previous version. Because it may not be technically possible to adequately depict all changes accurately, ASTM recommends that users consult prior editions as appropriate. In all cases only the current version of the standard as published by ASTM is to be considered the official document.

INTERNATIONAL

Designation: ~~F601 – 03 (Reapproved 2008)~~ F601 – 13

Standard Practice for Fluorescent Penetrant Inspection of Metallic Surgical Implants[1]

This standard is issued under the fixed designation F601; 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 practice is intended as a guide for fluorescent penetrant inspection of metallic surgical implants.

1.2 *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]

D95 Test Method for Water in Petroleum Products and Bituminous Materials by Distillation

E165 Practice for Liquid Penetrant Examination for General Industry

~~E433~~E1135 ~~Reference Photographs for Liquid Penetrant Inspection~~Test Method for Comparing the Brightness of Fluorescent Penetrants

E1417 Practice for Liquid Penetrant Testing

2.2 *ASNT Recommended Practice:*[3]

Recommended Practice No. SNT-TC-1A

2.3 *SAE Standard:*[4]

AMS 2644 Inspection Material, Penetrant

3. Significance and Use

3.1 This practice is intended to confirm the method of obtaining and evaluating the fluorescent penetrant indications on metallic surgical implants.

3.2 The product acceptance and rejection criteria will be as agreed upon between the purchaser and the supplier.

4. Fluorescent Penetrant Method

4.1 Perform fluorescent penetrant inspection of metallic surgical implants in accordance with Practice E165, Method A.

4.2 The penetrant system used shall conform to a minimum of Sensitivity Level 3, in accordance with the latest revision of AMS 2644.

4.3 All penetrant materials shall be compatible with each other.

5. Preparation for Testing

5.1 Pre- and post-cleaning requirements are to be agreed upon between the purchaser and supplier.

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[1] This practice is under the jurisdiction of ASTM Committee F04 on Medical and Surgical Materials and Devices and is the direct responsibility of Subcommittee F04.12 on Metallurgical Materials.

Current edition approved ~~Feb. 1, 2008~~Dec. 1, 2013. Published ~~May 2008~~January 2014. Originally approved in 1978. Last previous edition approved in ~~2003~~2008 as ~~F601 – 03.~~F601 – 03 (2008). DOI: ~~10.1520/F0601-03R08.~~10.1520/F0601-13.

[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* volume information, refer to the standard's Document Summary page on the ASTM website.

[3] Available from American Society for Nondestructive Testing (ASNT), P.O. Box 28518, 1711 Arlingate Ln., Columbus, OH 43228-0518, http://www.asnt.org.

[4] Available from Society of Automotive Engineers (SAE), 400 Commonwealth Dr., Warrendale, PA 15096-0001, http://www.sae.org.

***A Summary of Changes section appears at the end of this standard**

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