

STANDARD TEST METHOD FOR LIQUID PENETRANT EXAMINATION



SE-165



(Identical with ASTM Specification E 165-95)

1. Scope

1.1 This test method covers procedures for penetrant examination of materials. They are nondestructive testing methods for detecting discontinuities that are open to the surface such as cracks, seams, laps, cold shuts, laminations, through leaks, or lack of fusion and are applicable to in-process, final, and maintenance examination. They can be effectively used in the examination of nonporous, metallic materials, both ferrous and non-ferrous, and of nonmetallic materials such as glazed or fully densified ceramics, certain nonporous plastics, and glass.

1.2 This test method also provides a reference:

1.2.1 By which a liquid penetrant examination process recommended or required by individual organizations can be reviewed to ascertain its applicability and completeness.

1.2.2 For use in the preparation of process specifications dealing with the liquid penetrant examination of materials and parts. Agreement by the user and the supplier regarding specific techniques is strongly recommended.

1.2.3 For use in the organization of the facilities and personnel concerned with the liquid penetrant examination.

1.3 This test method does not indicate or suggest criteria for evaluation of the indications obtained. It should be pointed out, however, that after indications have been produced, they must be interpreted or classified and then evaluated. For this purpose there must be a separate code or specification or a specific agreement to define the type, size, location, and direction of indications considered acceptable, and those considered unacceptable.

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

1.5 *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. For specific hazard statements, see Notes 5, 12, and 20.*

2. Referenced Documents

2.1 ASTM Standards:

- D 129 Test Method for Sulfur in Petroleum Products (General Bomb Method)
- D 516 Test Method for Sulfate Ion in Water
- D 808 Test Method for Chlorine in New and Used Petroleum Products (Bomb Method)
- D 1193 Specification for Reagent Water
- D 1552 Test Method for Sulfur in Petroleum Products (High-Temperature Method)
- D 4327 Test Method for Anions in Water in Chemically Suppressed Ion Chromatography
- E 433 Reference Photographs for Liquid Penetrant Inspection
- E 543 Practice for Evaluating Agencies that Perform Nondestructive Testing
- E 1208 Test Method for Fluorescent Liquid Penetrant Examination Using the Lipophilic Post-Emulsification Process
- E 1209 Test Method for Fluorescent Liquid Penetrant Examination Using the Water-Washable Process
- E 1210 Test Method for Fluorescent Liquid Penetrant Examination Using the Hydrophilic Post-Emulsification Process

Astm E 165

Peter J. Shull



Astm E 165:

Nondestructive Evaluation Peter J. Shull, 2002-05-08 Describing NDE issues associated with real world applications this comprehensive book details conventional and forthcoming NDE technologies It instructs on current practices common techniques and equipment applications and the potentials and limitations of current NDE methods Each chapter details a different method providing an overview an e END. Líquidos penetrantes. Nivel II ,2003 **Piping and Pipeline Engineering** George A. Antaki, 2003-05-28 Taking a big picture approach Piping and Pipeline Engineering Design Construction Maintenance Integrity and Repair elucidates the fundamental steps to any successful piping and pipeline engineering project whether it is routine maintenance or a new multi million dollar project The author explores the qualitative details calculations and techniques that are essential in supporting competent decisions He pairs coverage of real world practice with the underlying technical principles in materials design construction inspection testing and maintenance Discover the seven essential principles that will help establish a balance between production cost safety and integrity of piping systems and pipelines The book includes coverage of codes and standards design analysis welding and inspection corrosion mechanisms fitness for service and failure analysis and an overview of valve selection and application It features the technical basis of piping and pipeline code design rules for normal operating conditions and occasional loads and addresses the fundamental principles of materials design fabrication testing and corrosion and their effect on system integrity **Emerging Trends in Mineral Processing and Extractive Metallurgy** ,2005 Contributed articles presented at the Conference Non-destructive Testing of Wisconsin Highway Bridges Alireza Ghorbanpoor, Neal Benish, 2005 **State-of-the-art Procedures and Equipment for Internal Inspection of Underground Storage Tanks** S. E. Boone, 1991 Aircraft Inspection and Repair Federal Aviation Administration, 2010-01-01 With every deadly airplane disaster or near miss it becomes more and more clear that proper inspection and repair of all aircraft is essential to safety in the air When no manufacturer repair or maintenance instructions are available the Federal Aviation Administration deems Aircraft Inspection and Repair the one stop guide to all elements of maintenance preventive rebuilding and alteration With detailed information on structural inspection protection and repair including aircraft systems hardware fuel and engines and electrical systems this comprehensive guide is designed to leave no vital question on inspection and repair unanswered Sections include Wood fabric plastic and metal structures Testing of metals and repair procedures Welding and brazing including fire explosion and safety Nondestructive inspection NDI Application of magnetic particles Common corrosive elements and corrosion proofing Aircraft hardware from nuts and bolts to washers and pins Engines fuel exhaust and propellers Aircraft systems and components Electrical systems This is a book that should be available to everyone who works on aircraft or is training to do so The official FAA guide to maintenance methods techniques and practices essential for all pilots and aircraft maintenance workers 200 B W 200 B W **Oil and Gas Pipelines and Piping Systems** Alireza

Bahadori, 2016-09-10 Oil and Gas Pipelines and Piping Systems Design Construction Management and Inspection delivers all the critical aspects needed for oil and gas piping and pipeline condition monitoring and maintenance along with tactics to minimize costly disruptions within operations. Broken up into two logical parts, the book begins with coverage on pipelines including essential topics such as material selection, designing for oil and gas central facilities, tank farms, and depots; the construction and installment of transportation pipelines; pipe cleaning and maintenance checklists. Moving over to piping, information covers piping material selection and designing and construction of plant piping systems with attention paid to flexibility analysis on piping stress, a must-have component for both refineries with piping and pipeline systems. Heavily illustrated and practical for engineers and managers in oil and gas, today the book supplies the oil and gas industry with a must-have reference for safe and effective pipeline and piping operations. Presents valuable perspectives on pipelines and piping operations specific to the oil and gas industry. Provides all the relevant American and European codes and standards as well as English and Metric units for easier reference. Includes numerous visualizations of equipment and operations with illustrations from various worldwide case studies and locations.

A Practical Guide to Piping and Valves for the Oil and Gas Industry Karan Sotoodeh, 2021-01-12 A Practical Guide to Piping and Valves for the Oil and Gas Industry covers how to select, test, and maintain the right oil and gas valve. Each chapter focuses on a specific type of valve with a built-in structured table on valve selection. Covering both onshore and offshore projects, the book also gives an introduction to the most common types of corrosion in the oil and gas industry, including CO₂, H₂S, pitting, crevice, and more. A model to evaluate CO₂ corrosion rate on carbon steel piping is introduced along with discussions on bulk piping components including fittings, gaskets, piping, and flanges. Rounding out with chapters devoted to valve preservation to protect against harmful environments and factory acceptance testing, this book gives engineers and managers a much-needed tool to better understand today's valve technology. Presents oil and gas examples and challenges relating to valves, including many illustrations from valves in different stages of projects. Helps readers understand valve materials, testing, actuation, packing, and preservation, also including a new model to evaluate CO₂ corrosion rates on carbon steel piping. Presents structured valve selection tables in each chapter to help readers pick the right valve for the right project.

Materials and Process Selection for Engineering Design, Third Edition Mahmoud M. Farag, 2013-11-19 Introducing a new engineering product or changing an existing model involves making designs, reaching economic decisions, selecting materials, choosing manufacturing processes, and assessing its environmental impact. These activities are interdependent and should not be performed in isolation from each other. This is because the materials and processes used in making the product can have a large influence on its design cost and performance in service. Since the publication of the second edition of this book, changes have occurred in the fields of materials and manufacturing. Industries now place more emphasis on manufacturing products and goods locally rather than outsourcing. Nanostructured and smart materials appear more frequently in products; composites are used in designing

essential parts of civilian airliners and biodegradable materials are increasingly used instead of traditional plastics More emphasis is now placed on how products affect the environment and society is willing to accept more expensive but eco friendly goods In addition there has been a change in the emphasis and the way the subjects of materials and manufacturing are taught within a variety of curricula and courses in higher education This third edition of the bestselling Materials and Process Selection for Engineering Design has been comprehensively revised and reorganized to reflect these changes In addition the presentation has been enhanced and the book includes more real world case studies

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