



Designation: D8093 – 16 D8093 – 19

An American National Standard

Standard Guide for Nondestructive Evaluation of Nuclear Grade Graphite¹

This standard is issued under the fixed designation D8093; the number immediately following the designation indicates the year of original adoption or, in the case of revisions, 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. Scope²

1.1 This guide provides general tutorial information regarding the application of conventional nondestructive evaluation technologies (NDE) to nuclear grade graphite. An introduction will be provided to the characteristics of graphite that defines the inspection technologies that can be applied and the limitations imposed by the microstructure. This guide does not provide specific techniques or acceptance criteria for end-user examinations but is intended to provide information that will assist in identifying and developing suitable approaches.

1.2 The values stated in SI units are to be regarded as the standard.

1.2.1 *Exception*—Alternative units provided in parentheses are for information only.

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, health, and health/environmental practices and determine the applicability of regulatory limitations prior to use.*

1.4 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:³

~~E709 Terminology Relating to Manufactured Carbon and Graphite (Withdrawn 2017)⁴~~

D7219 Specification for Isotropic and Near-isotropic Nuclear Graphites

E94 Guide for Radiographic Examination Using Industrial Radiographic Film

E1025 Practice for Design, Manufacture, and Material Grouping Classification of Hole-Type Image Quality Indicators (IQI) Used for Radiography

E1441 Guide for Computed Tomography (CT)

3. Summary of Guide

3.1 This guide describes the impact specific material properties have on the application of three nondestructive evaluation technologies: Eddy current/electromagnetic testing (ET) (surface/in-situ surface interrogation), ultrasonic testing (UT) (volumetric interrogation), radiographic (X-ray) testing (RT) (volumetric interrogation), to nuclear grade graphite.

4. Significance and Use

4.1 Nuclear grade graphite is a composite material made from petroleum or a coal-tar-based coke and a pitch binder. Manufacturing graphite is an iterative process of baking and pitch impregnation of a formed billet prior to final graphitization, which occurs at temperatures greater than 2500 °C. The impregnation and rebake step is repeated several times until the desired product density is obtained. Integral to this process is the use of isotropic cokes and a forming process (that is, isostatically molded, vibrationally molded, or extruded) that is intended to obtain an isotropic or near isotropic material. However, the source, size, and blend of the starting materials as well as the forming process of the green billet will impart unique material properties as well as variations within the final product. There will be density variations from the billet surface inward and different physical properties with and transverse to the grain direction. Material variations are expected within individual billets as well as billet-to-billet and

¹ This guide is under the jurisdiction of ASTM Committee D02 on Petroleum Products, Liquid Fuels, and Lubricants and is the direct responsibility of Subcommittee D02.10 on Manufactured Carbon and Graphite Products.

Current edition approved December 1, 2019. Published March 2019/December 2019. Originally approved in 2016. Last previous edition approved in 2016 as D8093 – 16. DOI: 10.1520/D8093-16.10.1520/D8093-19.

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

Nondestructive Evaluation In The Nuclear

American Society for Metals



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Nondestructive Evaluation in the Nuclear Industry, 1980 American Society for Metals, 1981 Nondestructive Evaluation in the Nuclear Industry R. Natesh, 1978 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine **Quantitative NDE in the Nuclear Industry** Roger B. Clough, 1983 Nondestructive Evaluation Don E. Bray, Roderick K. Stanley, 2018-10-03

Nondestructive evaluation NDE inspection schemes are important in design manufacturing and maintenance By correctly applying techniques of NDE we can reduce machine and system failures and increase reliability of operating systems over an extended lifetime Nondestructive Evaluation A Tool in Design Manufacturing and Service introduces and discusses primary techniques used in the field including ultrasonics acoustic emission magnetics radiography penetrants and eddy currents Examples of each of these techniques are included demonstrating typical applications Electromagnetic Nondestructive Evaluation (XII) International Workshop on Electromagnetic Nondestructive Evaluation, 2009-07-20 The 13th International Workshop on Electromagnetic Nondestructive Evaluation ENDE was held at the Seoul Education and Culture Center Korea in June 2008 Electromagnetic Nondestructive Evaluation XII contains the proceedings of this workshop 51 research papers present the latest research in topics ranging from ENDE in nuclear power plants eddy current testing modeling material characterization to inverse problem and imaging and the application of electromagnetic nondestructive techniques

Electromagnetic Nondestructive Evaluation (VII) Gerd Dobmann, 2006 The aim of this selection of papers is to bring together researchers working very deep in the basics of electromagnetic NDT on one hand and industrialist discussing their practical problems on the other hand The papers cover topics as Microwave applications and Material Characterization General Eddy Current Inspection Tasks Novel Techniques and Sensors Magnetic Flux leakage Inspection Steam Generator Eddy Current Inspection Tasks and Material Characterization Especially Novel Techniques and Sensors and Material Characterization are discussed on multiple papers This publication gives a good overview of the many scientific problems in this area but also explains the actual challenges for the scientific technical community like problems with in line inspection of pipelines or the enhancing of the inspection performance in steam generator tubes inspection in the nuclear field The material is important for scientists and engineers working in the field of electromagnetic non destructive testing in defect detection and sizing as well as in material characterization **Handbook of Nondestructive Evaluation 4.0** Norbert Meyendorf, Nathan Ida, Ripudaman (Ripi) Singh, Johannes Vrana, 2025-06-29 This handbook now as second edition continues to comprehensively cover the cutting edge trends and techniques essential for the integration of nondestructive evaluation NDE into the changing face of the modern industrial landscape In particular it delves into the marriage of NDE with new techniques in e g data mining and management cloud computing autonomous operation AI for data analysis and decision making as well as cyber security highlighting the potential for cyber physical controlled production and discussing the

myriad possible applications across many different industries The Handbook of NDE 4 0 centers around the Industry 4 0 philosophy the next generation of industrial production encompassing all aspects of networking across all industrial areas It discusses the adaptation of existing NDE techniques to emerging new technological areas such as 3D printing via the introduction of cyber systems into the inspection and maintenance processes In addition the handbook covers topics such as the management and processing of big data with respect to real time monitoring of structural integrity and reliable inspection of individual components Remote NDE to include competence not available on site will be a potential technique to increase reliability of NDE inspections by integrating additional specialist inputs into the decision process by methods such as telepresence thereby better leveraging the scarce resources of senior inspectors into industrial inspections at multiple sites The handbook also includes non technical topics of direct relevance to leadership management and adoption of this new philosophy The handbook houses a wealth of essential information to help academics industry professionals regulatory bodies and entrepreneurs navigate through this burgeoning new field The material in this handbook is presented with the intention of ultimately improving human safety through reliable inspections and dependable maintenance of critical infrastructure while also enhancing business value through reduced downtime affordable maintenance and talent optimization The content is positioned to inspire NDE professionals to think broadly in terms of their role as continuous value add rather than discrete decision support This second edition contains many new chapters and half of all chapters were revised from the 1st edition based on the engagement of authors through global platforms such as the ICDNT Specialist International Group on NDE 4 0 and the International conference series on NDE 4 0 Nondestructive Evaluation in the Nuclear Industry R.

Natesh,American society for metals. Materials testing and quality control division,1978 *Electromagnetic Nondestructive Evaluation (XIX)* N. Yusa,T. Uchimoto,H. Kikuchi,2016-06-09 There have been many developments in the field of electromagnetic nondestructive evaluation in recent years and it has become an increasingly valuable tool in many areas of industry engineering and construction This book presents selected papers from the 20th International workshop on Electromagnetic Nondestructive Evaluation ENDE held in Sendai Japan in September 2015 ENDE workshops aim to provide an international forum for discussion on the state of the art and perspectives in the field of electromagnetic nondestructive methods from the point of view of science and technology as well as their applications in industry and engineering which have contributed to the development of nondestructive testing and evaluation techniques using electromagnetic fields The book will be of interest to all those whose work involves the use or development of electromagnetic nondestructive evaluation techniques in whatever field **Review of Progress in Quantitative Nondestructive Evaluation** Donald O.

Thompson,Dale E. Chimenti,2012-12-06 The objective of this study was to increase the understanding of damage in composite materials with through the thickness reinforcements As a first step it was necessary to develop new ultrasonic imaging technology to better assess internal damage of the composite A useful ultrasonic imaging technique has been

successfully developed to assess the internal damage of composite panels The ultrasonic technique accurately determines the size of the internal damage It was found that the ultrasonic imaging technique was better able to assess the damage in a composite panel with through the thickness reinforcements than by destructively sectioning the specimen and visual inspection under a microscope Microscopic determination of crack location and lengths in a composite panel with through the thickness reinforcements was almost impossible Five composite compression after impact panels were tested The compression after impact strength of the panels with the through the thickness reinforcements was almost twice that of the comparable panel without through the thickness reinforcement REFERENCES 1 B T Smith J S Heyman A M Buoncristiani Earl D Blodgett J G Miller and S M Freeman Correlation of the Deply TechniQue with the Ultrasonic Imaging of Impact Damage in Graphite Epoxy Composites Materials Evaluation vol 47 NO 12 December 1989 pp 1408 1416 2 NASA Tech Briefs June 1987 p 28 3 P M Gammel Improved Ultrasonic Detection using Analytic Signal Magnitude Ultrasonics Vol 19 March 1981 pp 73 76 4 R C Heyser Determination of Loudspeaker Signal Arrival Times Part Journal of the Audio Engineering Society Vol 19 Dec 1971 pp 902 905 Quantitative NDE in the Nuclear Industry International Conference on Nondestructive Evaluation in the Nuclear Industry. 5, 1982, San Diego, Calif.,1983 **Nondestructive Evaluation in the Nuclear Industry ...** American Society for Metals,1900* **Non-Destructive Evaluation of Corrosion and Corrosion-assisted Cracking** Raman Singh,Baldev Raj,U. Kamachi Mudali,Prabhakar Singh,2019-03-06 A comprehensive text to the non destructive evaluation of degradation of materials due to environment that takes an interdisciplinary approach Non Destructive Evaluation of Corrosion and Corrosion assisted Cracking is an important resource that covers the critical interdisciplinary topic of non destructive evaluation of degradation of materials due to environment The authors noted experts in the field offer an overview of the wide variety of approaches to non destructive evaluation and various types of corrosion The text is filled with instructive case studies from a range of industries including aerospace energy defense and processing The authors review the most common non destructive evaluation techniques that are applied in both research and industry in order to evaluate the properties and more importantly degradation of materials components or systems without causing damage Ultrasonic radiographic thermographic electromagnetic and optical are some of the methods explored in the book This important text Offers a groundbreaking interdisciplinary approach to of non destructive evaluation of corrosion and corrosion assisted cracking Discusses techniques for non destructive evaluation and various types of corrosion Includes information on the application of a variety of techniques as well as specific case studies Contains information targeting industries such as aerospace energy processing Presents information from leading researchers and technologists in both non destructive evaluation and corrosion Written for life assessment and maintenance personnel involved in quality control failure analysis and R D Non Destructive Evaluation of Corrosion and Corrosion assisted Cracking is an essential interdisciplinary guide to the topic *Symposium on Nondestructive Tests in the Field of Nuclear Energy* American Institute

of Chemical Engineers. Nuclear Engineering Division, Symposium on Nondestructive Tests in the Field of Nuclear Energy, 1958 **Non-Destructive Testing Standards** Harold Berger, 1977 **Nondestructive Testing and Evaluation of Fiber-Reinforced Composite Structures** Shuncong Zhong, Walter Nsengiyumva, 2022-04-01 This book presents a detailed description of the most common nondestructive testing NDT techniques used for the testing and evaluation fiber reinforced composite structures during manufacturing and or in service stages In order to facilitate the understanding and the utility of the different NDT techniques presented the book first provides some information regarding the defects and material degradation mechanisms observed in fiber reinforced composite structures as well as their general description and most probable causes It is written based on the extensive scientific research and engineering backgrounds of the authors in the NDT and structural health monitoring SHM of structural systems from various areas including electrical mechanical materials civil and biomedical engineering Pursuing a rigorous approach the book establishes a fundamental framework for the NDT of fiber reinforced composite structures while emphasizing on the importance of technique s spatial resolution integrated systems analysis and the significance of the influence stemming from the applicability of the NDT and the physical parameters of the test structures in the selection and utilization of adequate NDT techniques The book is intended for students who are interested in the NDT of fiber reinforced composite structures researchers investigating the applicability of different NDT techniques to the inspections of structural systems and NDT researchers and engineers working on the optimization of NDT systems for specific applications involving the use of fiber reinforced composite structures

Nondestructive evaluation in the nuclear industry Comité français des essais non destructifs, American Society for Metals,

NBS Special Publication , 1968 **Publications of the National Institute of Standards and Technology ...**

Catalog National Institute of Standards and Technology (U.S.), 1981 9th International Conference on Nondestructive Evaluation in the Nuclear Industry, Tokyo, Japan, 25-28 April, 1988 Kunihiro Iida, James E. Doherty, Xaver Edelmann, 1988-01-01

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