



Designation: A751 – 20

Standard Test Methods and Practices for Chemical Analysis of Steel Products¹

This standard is issued under the fixed designation A751; 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 approval. 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 U.S. Department of Defense.

INTRODUCTION

These test methods and practices were prepared to answer the need for a single document that would include all aspects of obtaining and reporting the chemical analysis of steel, stainless steel, and related alloys. Such subjects as definitions of terms and product (check) analysis variations (tolerances) required clarification. Requirements for sampling, meeting specified limits, and treatment of data usually were not clearly established in product specifications.

It is intended that these test methods and practices will contain all requirements for the determination of chemical composition of steel, stainless steel, or related alloys so that product specifications will need contain only special modifications and exceptions.

1. Scope²

1.1 These test methods and practices cover definitions, reference methods, practices, and guides relating to the chemical analysis of steel, stainless steel, and related alloys. They include both wet chemical and instrumental techniques.

1.2 Directions are provided for handling chemical requirements, product analyses, residual elements, and reference standards, and for the treatment and reporting of chemical analysis data.

1.3 These test methods and practices apply only to those product standards which include these test methods and practices, or parts thereof, as a requirement.

1.4 In cases of conflict, the product specification requirements shall take precedence over the requirements of these test methods and practices.

1.5 Attention is directed to ISO/IEC 17025 when there may be a need for information on criteria for evaluation of testing laboratories.

1.6 *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 environmental practices and determine the applicability of regulatory limitations prior to use.*

¹ These test methods and practices are under the jurisdiction of ASTM Committee A01 on Steel, Stainless Steel and Related Alloys and are the direct responsibility of Subcommittee A01.13 on Mechanical and Chemical Testing and Processing Methods of Steel Products and Practices.

Current edition approved Nov. 1, 2020. Published December 2020. Originally approved in 1977. Last previous edition approved in 2014 as A751 – 14a. DOI: 10.1520/A0751-20.

1.7 *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 Standards³

A941 Terminology Relating to Steel, Stainless Steel, Related Alloys, and Ferroalloys

E29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications

E50 Practices for Apparatus, Reagents, and Safety Considerations for Chemical Analysis of Metals, Ores, and Related Materials

E60 Practice for Analysis of Metals, Ores, and Related Materials by Spectrophotometry

E322 Test Method for Analysis of Low-Alloy Steels and Cast Irons by Wavelength Dispersive X-Ray Fluorescence Spectrometry

E350 Test Methods for Chemical Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron

E352 Test Methods for Chemical Analysis of Tool Steels and Other Similar Medium- and High-Alloy Steels

² These test methods and practices are under the jurisdiction of ASTM Committee A01 on Steel, Stainless Steel and Related Alloys and are the direct responsibility of Subcommittee A01.13 on Mechanical and Chemical Testing and Processing Methods of Steel Products and Practices.

Astm A751

AW Chickering



Astm A751:

Worldwide Guide to Equivalent Irons and Steels Fran Cverna, 2006-01-01 More than 30 000 listings are presented in this edition with increased coverage from major steel producing countries such as China India and Japan

Introduction to Piping Quality Control Ram Babu Sao, 2025-03-23 The terms Quality Control and Quality Assurance are often used interchangeably but they are not synonymous Quality Assurance is a program executed by company management Quality Control is a task that takes place on the production floor Two aspects are quality control QC and quality assurance QA Understanding these programs and their roles is critical in making sure the respective engineer to carry out their duties effectively There are three most important criteria for evaluating the Quality Control of work such as Cost Time of delivery and Quality Quality is most important factor out of the three Quality isn't simply a cost It is a powerful tool that contributes to the economic success of the work Therefore there is need to control all three but quality is the most significant Many manufacturers recognize that quality leads to a higher customer retention rate and helps to build competitive boundaries However the term quality by itself isn't sufficient ISO 9000 definitions the QC is the operational techniques and activities that are utilized to fulfil requirements for quality and QA is all those planned and systematic activities implemented to provide adequate confidence that the entity will fulfil requirements for quality QC is a production line function The aim of QC is to offer the highest reasonable quality of product or service to the client thereby meeting or even exceeding the client's requirements The QA manager is interested in investigating technologies and processes that prevent defects QA is a staff function The aim of QA is to apply a planned and systematic production process establishing confidence that the process generates suitable products QC method is intended to provide regular product inspection thereby guaranteeing the output's correctness completeness and integrity It finds and addresses mistakes They file and record all the QC procedures The product or service needs to be suitable and fit for the intended purpose The methods and processes should decrease errors and shortcomings the first time through the manufacturing process QC is product oriented it focuses on tests and inspections carried out at various production line checkpoints QA is process oriented its concerns are process definitions proper selection of tools proper use of testing methods and operator training QC works at locating defects QA works at preventing them QC emphasizes testing of products to discover defects and reporting the results to management QA attempts to improve and stabilize production to minimize or prevent the conditions that trigger defects Typically quality control involves problem identification problem analysis problem correction and feedback Quality assurance involves data collection problem trend analysis process identification process analysis and process improvement

Introduction to Piping Engineering RAM BABU SAO, 2025-03-23 It gives me great pleasure and sense of deep satisfaction to publish this book of Introduction to Piping Engineering You can learn how to design material selection and testing fabrication erection construction inspections and quality control of pipe along with weld joints detail joint preparation pipe cutting joints fit up welding of pipe pipe

supports and steel structural platforms fabrication and installation etc and teach yourself to be a master of the process piping construction with the step by step instructions and quality control It provides all the information about tools and equipments being used in the piping construction work An engineer is the tradesperson who is busy in fabrication installation assembly testing maintenance and repair of process piping systems Fresh Piping engineer usually begins as apprentices and deals with industrial commercial marine piping and process piping systems Typical industrial process pipe works under high pressure and temperature and requires metals such as carbon steel stainless steel alloy steel cupronical and many different alloying metals fused together through precise cutting threading grooving bending and welding Piping engineer plan and test piping and tubing layouts cut bend or fabricated pipe or tubing segments and joints of those segments by threading welding brazing cementing or soldering them together They check the installation of manual pneumatic hydraulic and electric operated valves on pipes to control the flow through the pipes or tubes They carry out testing and inspection of the piping system Piping engineers are often exposed to hazardous or dangerous materials such as asbestos lead ammonia steam flammable gases various resins and solvents including benzene and various refrigerants Much progress was made in the 20th century toward eliminating or reducing hazardous materials exposures Many aspects of hazardous materials are now regulated by law in most countries including asbestos usage and removal and refrigerant selection and handling Other occupational hazards include exposure to the weather heavy lifting crushing hazards lacerations and other risks normal to the construction industry This book has proved to be a friend and guide to many Piping engineer Contractors and Technicians working with any Construction or Consultants Companies who are responsible for Laying out assembling or installation of piping systems pipe supports applying their knowledge of construction experience following blueprints and select the type and size of pipe related materials and equipment such as supports hangers and hydraulic cylinders according to piping drawings and specifications Piping engineers are the main technical professionals who are responsible to deliver the quality job of piping work and they should have sufficient knowledge of Piping Engineering subject This will result in improving the general quality levels of a Piping engineer in this direction leading to a greater satisfaction in work This book is taking a lead in upgrading the awareness knowledge of various matters related with piping work benefiting Piping engineers working in the field of piping work The total practical approach of this book explodes the statistical data on mathematics physics chemistry and engineering that even the piping engineering subject is tough and difficult to understand a general reader or beginners willing to know about the subject will find the content very easy and simple to follow I hope that the excellence of this book will be appreciated by the readers from all parts of India and abroad

Handbook of Engineering Practice of Materials and Corrosion Jung-Chul (Thomas) Eun, 2020-09-04 This handbook is an in depth guide to the practical aspects of materials and corrosion engineering in the energy and chemical industries The book covers materials corrosion welding heat treatment coating test and inspection and mechanical design and integrity A central focus is placed on industrial

requirements including codes standards regulations and specifications that practicing material and corrosion engineers and technicians face in all roles and in all areas of responsibility The comprehensive resource provides expert guidance on general corrosion mechanisms and recommends materials for the control and prevention of corrosion damage and offers readers industry tested best practices rationales and case studies *Introduction to Knowledge of Piping Engineering* Ram Babu Sao, It gives me great pleasure and a sense of deep satisfaction to publish this book *Introduction to Knowledge of Piping Engineering* You can learn how to design material selection and test fabrication erect construct inspections and quality control pipe along with weld joints detail joint preparation pipe cutting joints fit up welding of pipe pipe supports and steel structural platforms fabrication and installation etc and teach yourself to be a master of the process piping construction with the step by step instructions and quality control It provides all the information about tools and types of equipment being used in the piping construction work An engineer is a tradesperson who is busy in the fabrication installation assembly testing maintenance and repair of process piping systems Fresh Piping engineer usually begins as apprentices and deal with industrial commercial marine piping and process piping systems Typical industrial process pipe works under high pressure and temperature and requires metals such as carbon steel stainless steel alloy steel cupronickel and many different alloying metals fused through precise cutting threading grooving bending and welding Piping engineers plan and test piping and tubing layouts cut bend or fabricate pipe or tubing segments and joints of those segments by threading welding brazing cementing or soldering them together They check the installation of manual pneumatic hydraulic and electric operated valves on pipes to control the flow through the pipes or tubes They do testing and inspection of the piping system Piping engineers are often exposed to hazardous materials such as asbestos lead ammonia steam flammable gases various resins and solvents including benzene and various refrigerants Much progress was made in the 20th century toward eliminating or reducing hazardous materials exposures Many aspects of hazardous materials are now regulated by law in most countries including asbestos usage and removal and refrigerant selection and handling **The Best Knowledge of Piping**

Engineering II ,2025-11-15 It gives me great pleasure and sense of deep satisfaction to publish this book of **The Best Knowledge of Piping Engineering II** You can learn how to design material selection and testing fabrication erection construction inspections and quality control of pipe along with weld joints detail joint preparation pipe cutting joints fit up welding of pipe pipe supports and steel structural platforms fabrication and installation etc and teach yourself to be a master of the process piping construction with the step by step instructions and quality control It provides all the information about tools and equipments being used in the piping construction work An engineer is the tradesperson who is busy in fabrication installation assembly testing maintenance and repair of process piping systems Fresh Piping engineer usually begins as apprentices and deals with industrial commercial marine piping and process piping systems Typical industrial process pipe works under high pressure and temperature and requires metals such as carbon steel stainless steel alloy steel cupronical

and many different alloying metals fused together through precise cutting threading grooving bending and welding Piping engineer plan and test piping and tubing layouts cut bend or fabricated pipe or tubing segments and joints of those segments by threading welding brazing cementing or soldering them together They check the installation of manual pneumatic hydraulic and electric operated valves on pipes to control the flow through the pipes or tubes They do testing and inspection of the piping system Piping engineers are often exposed to hazardous or dangerous materials such as asbestos lead ammonia steam flammable gases various resins and solvents including benzene and various refrigerants Much progress was made in the 20th century toward eliminating or reducing hazardous materials exposures Many aspects of hazardous materials are now regulated by law in most countries including asbestos usage and removal and refrigerant selection and handling Other occupational hazards include exposure to the weather heavy lifting crushing hazards lacerations and other risks normal to the construction industry This book has proved to be a friend and guide to many Piping engineer Contractors and Technicians working with any Construction or Consultants Companies who are responsible for Laying out assembling or installation of piping systems pipe supports applying their knowledge of construction experience following blueprints and select the type and size of pipe related materials and equipment such as supports hangers and hydraulic cylinders according to piping drawings and specifications Reinforcement for Modern Concrete Structures Khan Mahmud Amanat, 2025-03-26

There are a lot of excellent textbooks on the design of reinforced concrete structures However based on professional experience of more than thirty years the author feels that a separate book dedicated only to discuss the properties behavior and use of reinforcement in concrete construction is highly justified Conventional textbooks on concrete structures focus primarily on the mechanics of reinforced concrete design Properties of reinforcement are discussed in a limited manner only those which are deemed just adequate for discussing the theory of concrete mechanics Typically such books contain little or no background information or explanation as to why the various code provisions or rules regarding the reinforcement are imposed or formulated It is observed that the application of modern materials and technologies in reinforcement manufacturing does not get proper attention or consideration in the engineering practices of many professionals Based on the interaction with many engineers engaged in the design and construction of concrete structures the author feels that there is a lack of the essential background knowledge of the engineering properties and behavior of concrete reinforcement among many of them And such a lack of knowledge often leads to improper implementation of the code design provisions Limited scope of our existing engineering curricula is primarily responsible for this This book has been written with an aim to fill this gap and to make engineering students and practicing engineers more up to date *Department Of Defense Index of Specifications and Standards Alphabetical Listing Part I* July 2005 , *Index of Specifications and Standards* , 2005

Steel Pipe AWWA Staff, American Water Works Association, 2004 This manual provides a review of experience and design theory regarding steel pipe used for conveying water This fourth edition of the manual was approved in March 2003

and includes a new discussion of chemistry casting and heat treatment plus new discussion of stress evaluation in spiral welded pipe There is revised material on ring girder d *Handbook of Valves and Actuators* Brian Nesbitt, 2011-04-19 Industries that use pumps seals and pipes will also use valves and actuators in their systems This key reference provides anyone who designs uses specifies or maintains valves and valve systems with all of the critical design specification performance and operational information they need for the job in hand Brian Nesbitt is a well known consultant with a considerable publishing record A lifetime of experience backs up the huge amount of practical detail in this volume Valves and actuators are widely used across industry and this dedicated reference provides all the information plant designers specifiers or those involved with maintenance require Practical approach backed up with technical detail and engineering know how makes this the ideal single volume reference Compares and contrasts valve and actuator types to ensure the right equipment is chosen for the right application and properly maintained Engineering and Technical Development for a Sustainable Environment Dzaraini Kamarun, Ramlah Mohd. Tajuddin, Bulan Abdullah, 2017-11-23 This volume covers a diverse array of alternative technologies and their development with particular attention to the utilization of bioresources for the achievement of a sustainable environment The book presents a selection of alternative technologies being used in developing and developed countries that can be indigenous to the region cost effective and often driven by dominant societal interest and geographical status Several engineering and technological processes are included to mark their importance in product performance and preservation of the environment Topics cover strategies for the management of rain and ground water for consumption wastewater treatment using indigenous techniques of phytoremediation scientific and engineering approaches to the prevention of flood and landslides in the tropics wind power generation soil evaluation of contamination due to heavy metals green and sustainable building approaches bioethanol production energy conservation techniques Refreshing and informative *Engineering and Technical Development for a Sustainable Environment* revisits conventional approaches of managing natural agents such as wind rain and groundwater resources as well as wastewater treatment in light of current sustainable oriented techniques using modern scientific concepts and strategies It presents in depth evaluations and analyses using systematic up to date scientific and engineering tools Best Plumber Handbook II Ram Babu Sao, 2025-11-16 It gives me great pleasure and a sense of deep satisfaction to publish this book *Best Plumber Handbook II* Plumbing is the work of connecting and repairing things such as water and drainage pipes in baths room and toilets The plumbing in a building consists of the water and drainage pipes baths and toilets in it Plumbing is the work of connecting and repairing the pipes fittings fixtures and valves etc in a water supply drainage systems in a building having a bath or a container usually a long rectangular one which you fill with water and sit in while you wash your body Plumbing is the system of pipes tanks fittings and other apparatus required for the water supply heating drainage and sanitation in a building The work involves installing and maintaining a water supply drainage and sanitation system This book on plumbing is a textbook that serves as an

excellent reference for professional residential plumbers even if your apprenticeship days are well behind you It goes in depth on topics like reading blueprints and installing drainage waste and vent systems and includes an entire section on troubleshooting plumbing problems As a professional plumber it s your job to know the contents of the International Plumbing Code All licensed plumbers perform their work to a certain standard while avoiding hazards as much as possible Having the latest copy of the International Plumbing Code for reference helps you stay on top of new requirements and refresh your memory on those you don t encounter too often Whether you do residential or commercial plumbing you ll get a lot of value out of this book You can learn how to lay the piping and make a proper pipe joint or how to thread the pipe pipe supports and steel structures and teach yourself to be a master of the fitter s craft with the step by step instructions learning tools and types of equipment A pipe fitter is a tradesperson who installs assemble fabricate maintain and repair piping systems Pipe fitters usually begin as helpers or apprentices A plumber deal with building industrial commercial marine water supply drainage and sanitation piping and heating cooling systems Plumbers plan fabricate install and test the pipes and tubing layouts cut bend or fabricate pipe or tubing segments and join those segments by threading them using lead joints and cementing them together They install manual valves in pipes to control the flow through the pipes or tubes Forensic Engineering Kenneth L. Carper,2000-09-28 This edition of Forensic Engineering updates the original work with new case studies and investigative techniques Contributors to the book are the foremost authorities in each area of specialization These specialty areas include fire investigation industrial accidents product liability traffic accidents civil engineering and transportation di **Department Of Defense Index of Specifications and Standards Federal Supply Class Listing (FSC) Part III July 2005** , Failure, Distress and Repair of Concrete Structures Norb Delatte,2009-10-26 Understanding and recognising failure mechanisms in concrete is a fundamental pre requisite to determining the type of repair or whether a repair is feasible This title provides a review of concrete deterioration and damage as well as looking at the problem of defects in concrete It also discusses condition assessment and repair techniques Part one discusses failure mechanisms in concrete and covers topics such as causes and mechanisms of deterioration in reinforced concrete types of damage in concrete structures types and causes of cracking and condition assessment of concrete structures Part two reviews the repair of concrete structures with coverage of themes such as standards and guidelines for repairing concrete structures methods of crack repair repair materials bonded concrete overlays repairing and retrofitting concrete structures with fiber reinforced polymers patching deteriorated concrete structures and durability of repaired concrete With its distinguished editor and international team of contributors Failure and repair of concrete structures is a standard reference for civil engineers architects and anyone working in the construction sector as well as those concerned with ensuring the safety of concrete structures Provides a review of concrete deterioration and damage Discusses condition assessment and repair techniques standards and guidelines **Flexible Pipes** Qiang Bai,Yong Bai,Weidong Ruan,2017-03-31 Written by one of the

most well respected teams of scientists in the area of pipelines this revolutionary approach offers the engineer working in the energy industry the theory analysis and practical applications for applying new materials and modeling to the design and effective use of flexible pipes Recent changes in the codes for building pipelines has led to a boom in the production of new materials that can be used in flexible pipes With the use of polymers steel and other new materials and variations on existing materials the construction and therefore the installation and operation of flexible pipes is changing and being improved upon all over the world The authors of this work have written numerous books and papers on these subjects and are some of the most influential authors on flexible pipes in the world contributing much of the literature on this subject to the industry This new volume is a presentation of some of the most cutting edge technological advances in technical publishing This is the most comprehensive and in depth book on this subject covering not just the various materials and their aspects that make them different but every process that goes into their installation operation and design The thirty six chapters divided up into four different parts have had not just the authors of this text but literally dozens of other engineers who are some of the world s leading scientists in this area contribute to the work This is the future of pipelines and it is an important breakthrough A must have for the veteran engineer and student alike this volume is an important new advancement in the energy industry a strong link in the chain of the world s energy production The Construction Specifier ,1982 **Bridge Inspection and Rehabilitation** Parsons Brinckerhoff,1993-01-12 More than a third of America s bridges are considered substandard either structurally deficient functionally obsolete or both Offers first rate practical guidance regarding the inspection and rehabilitation of aging bridge infrastructure including all elements involving structure various materials and design types Features seismic retrofit and coverage of environmental issues Each chapter is written by an authority on the subject Contains top quality detailed line illustrations plus photographs of actual rehab projects **Proceedings of Chinese Materials Conference 2024** Bingbo Wei,Yuanyuan Li,Jianxin Xie,2025-02-27 This book is the conference proceedings of the Chinese Materials Conference 2024 held by the Chinese Materials Research Society C MRS in Guangzhou China It consists of about 20 papers in fields such as energy materials environmental materials advanced structural materials functional materials as well as materials simulation preparation and evaluation Readers will encounter new ideas and technologies in the field of advanced materials

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