

API SPECIFICATION 5L, 46TH EDITION

We are pleased to announce the publication of the 46th edition of Specification 5L, *Line Pipe*. This new edition provides technical updates that have reached consensus within API's Subcommittee on Tubular Goods and will now give industry consistent practices in these respective areas of the standard. These updates are reflective of API's standards program mission to provide a forum for development of consensus-based industry standards, and technical cooperation to improve the industry's safety performance and competitiveness.

Key Changes

- Updated and expanded requirements for mill jointers (differentiate between double-jointers and mill jointers; avoid welding consumables environmental contamination; require qualification standards; new process testing requirements; clarify offset and undercut requirements; standardize marking requirements; reference weld repair annex);
- Updated requirements for pipe end Squareness;
- Updated requirements for hardness testing on PSL 2 pipe for sour service and PSL 2 pipe for offshore service;
- New annex for strain-based design requirements (PSL 2 pipe for applications requiring longitudinal plastic strain capacity)

Effective Date and Program Implications

The Monogram Program effective date will be November 1, 2018.

Current licensees shall ensure that products manufactured on and after November 1st, 2018 meet the requirements of API 5L 46th edition in order to be monogrammed.

Also, effective November 1st, 2018, API 5L audits will be conducted to the 46th edition of the document.

To Purchase

Specification 5L is available on API's new Compass Platform. A Compass subscription gives you organization-wide, 24/7 access to all of the API standards and specifications you need to ensure safety, compliance and interoperability. With a subscription on Compass, you are ensured consistent and up-to-date access to the latest API standards. For additional information please use the e-mail compass@api.org.

- The subscription updates itself, so your subscription automatically reflects the latest edition
- 24/7 desktop access to critical information for all users at the licensed location
- Version comparison to quickly identify critical changes
- The ability to collaborate internally within the standard

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Additional Information and Questions

The companion video, highlighting key changes and the implications for API Monogram licensees, is now available. **Register now** to gain access to the video.

Api Spec 5a5

**J. Thomas Schmidt, Kermit Skeie, Paul
McIntire**

Api Spec 5a5:

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 *Shale Oil and Gas Production Processes* James G. Speight, 2019-11-18 *Shale Oil and Gas Production Processes* delivers the basics on current production technologies and the processing and refining of shale oil Starting with the potential of formations and then proceeding to production and completion this foundational resource also dives into the chemical and physical nature of the precursor of oil shale kerogen to help users understand and optimize its properties in shale Rounding out with reporting in situ retorting refining and environmental aspects this book gives engineers and managers a strong starting point on how to manage the challenges and processes necessary for the further development of these complex resources Helps readers grasp current research on production from shale formations including properties and composition Fill in the gaps between research and practical application including discussions of existing literature Includes a glossary to help readers fully understand key concepts *API Recommended Practice* American Petroleum Institute. Production Dept, 1983 Senior Design Projects in Mechanical Engineering Yongsheng Ma, Yiming Rong, 2021-11-10 This book offers invaluable insights about the full spectrum of core design course contents systematically and in detail This book is for instructors and students who are involved in teaching and learning of capstone senior design projects in mechanical engineering It consists of 17 chapters over 300 illustrations with many real world student project examples The main project processes are grouped into three phases i e project scoping and specification conceptual design and detail design and each has dedicated two chapters of process description and report content prescription respectively The basic principles and engineering process flow are well applicable for professional development of mechanical design engineers CAD CAM CAE technologies are commonly used within many project examples Thematic chapters also cover student teamwork organization and evaluation project management design standards and regulations and rubrics of course activity grading Key criteria of successful course accreditation and graduation attributes are discussed in details In summary it is a handy textbook for the capstone design project course in mechanical engineering and an insightful teaching guidebook for engineering design instructors *Deep Shale Oil and Gas* James G. Speight, 2016-09-10 Natural gas and crude oil production from hydrocarbon rich deep shale formations is one of the most quickly expanding trends in domestic oil and gas exploration Vast new natural gas and oil

resources are being discovered every year across North America and one of those new resources comes from the development of deep shale formations typically located many thousands of feet below the surface of the Earth in tight low permeability formations Deep Shale Oil and Gas provides an introduction to shale gas resources as well as offer a basic understanding of the geomechanical properties of shale the need for hydraulic fracturing and an indication of shale gas processing The book also examines the issues regarding the nature of shale gas development the potential environmental impacts and the ability of the current regulatory structure to deal with these issues Deep Shale Oil and Gas delivers a useful reference that today s petroleum and natural gas engineer can use to make informed decisions about meeting and managing the challenges they may face in the development of these resources Clarifies all the basic information needed to quickly understand today s deeper shale oil and gas industry horizontal drilling fracture fluids chemicals needed and completions Addresses critical coverage on water treatment in shale and important and evolving technology Practical handbook with real world case shale plays discussed especially the up and coming deeper areas of shale development API Specification American Petroleum Institute. Production Dept,1992 *API Specification for Drill Pipe* American Petroleum Institute. Production Department,1988 Environmental Aspects of Oil and Gas Production J. O. Robertson,G. V. Chilingar,2017-06-15 Oil and gas still power the bulk of our world from automobiles and the power plants that supply electricity to our homes and businesses to jet fuel plastics and many other products that enrich our lives With the relatively recent development of hydraulic fracturing fracking multilateral directional and underbalanced drilling and enhanced oil recovery oil and gas production is more important and efficient than ever before Along with these advancements as with any new engineering process or technology come challenges many of them environmental More than just a text that outlines the environmental challenges of oil and gas production that have always been there such as gas migration and corrosion this groundbreaking new volume takes on the most up to date processes and technologies involved in this field Filled with dozens of case studies and examples the authors two of the most well known and respected petroleum engineers in the world have outlined all of the major environmental aspects of oil and gas production and how to navigate them achieving a more efficient effective and profitable operation This groundbreaking volume is a must have for any petroleum engineer working in the field and for students and faculty in petroleum engineering departments worldwide **Recommended Practice for Field Inspection of New Casing, Tubing, and Plain-end Drill Pipe** American Petroleum Institute. Production Department,1989 **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

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Fracking Michael D. Holloway,2018-06-01 Since the first edition of Fracking was published hydraulic fracturing has continued to be hotly debated Credited with bringing the US and other countries closer to energy independence and blamed for tainted drinking water and earthquakes hydraulic fracturing fracking continues to be one of the hottest topics and fiercely debated issues in the energy industry and in politics Covering all of the latest advances in fracking since the first edition was published this expanded and updated revision still contains all of the valuable original content for the engineer or layperson to understand the technology and its ramifications Useful not only as a tool for the practicing engineer solve day to day problems that come with working in hydraulic fracturing it is also a wealth of information covering the possible downsides of what many consider to be a very valuable practice Many others consider it dangerous and it is important to see both sides of the argument from an apolitical logical standpoint While induced hydraulic fracturing utilizes many different engineering disciplines this book explains these concepts in an easy to understand format The primary use of this book shall be to increase the awareness of a new and emerging technology and what the various ramifications can be The reader shall be exposed to many engineering concepts and terms All of these ideas and practices shall be explained within the body A science or engineering background is not required

Magnetic Particle Testing J. Thomas Schmidt,Kermit Skeie,Paul McIntire,1989 *API Specification for Spiral-welded Line Pipe* American Petroleum Institute. Production Department,1982 **Oil & Gas Journal** ,2001 *Materials Evaluation* ,1988 **Catalog of American National Standards** American National Standards Institute,1995 **QualTest-2 Conference Proceedings, October 25-27, 1983, Dallas, Texas** American Society for Nondestructive Testing,1983 Petroleum Engineer International ,1982 **The Oil and Gas Journal** ,1976 Oil & Gas Science and Technology ,2002

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