

**API 5L PSL 2 Pipe Mechanical Properties**  
**Tensile Strength, Yield Strength, Elongation**

Pipe grade	Pipe body of seamless and welded pipes						Weld seam of HPFW, SAW and COW pipes
	Yield strength <sup>a</sup>		Tensile strength <sup>a</sup>		Ratio <sup>a,c</sup>	Elongation (on 50 mm or 2 in)	Tensile strength <sup>d</sup>
	R <sub>0.2</sub>		R <sub>m</sub>		R <sub>0.2</sub> /R <sub>m</sub>	A <sub>5</sub>	R <sub>m</sub>
	MPa (psi)		MPa (psi)		maximum	%	MPa (psi) minimum
	minimum	maximum	minimum	maximum	maximum	minimum	
L245R or BR L245N or BN L245Q or BQ L245M or BM	245 (35 500)	450 e (65 300) e	415 (60 200)	655 (95 000)	0.93	f	415 (60 200)
L290R or X42R L290N or X42N L290Q or X42Q L290M or X42M	290 (42 100)	495 (71 800)	415 (60 200)	655(95 000)	0.93	f	415 (60 200)
L320N or X46N L320Q or X46Q L320M or X46M	320 (46 400)	525 (76 100)	435 (63 100)	655 (95 000)	0.93	f	435 (63 100)
L360N or X52N L360Q or X52Q L360M or X52M	360 (52 200)	530 (76 900)	460 (66 700)	760 (110 200)	0.93	f	460 (66 700)
L390N or X56N L390Q or X56Q L390M or X56M	390 (56 600)	545 (79 000)	490 (71 100)	760 (110 200)	0.93	f	490 (71 100)
L415N or X60N L415Q or X60Q L415M or X60M	415 (60 200)	565 (81 900)	520 (75 400)	760 (110 200)	0.93	f	520 (75 400)
L450Q or X65Q L450M or X65M	450 (65 300)	600 (87 000)	535 (77 600)	760 (110 200)	0.93	f	535 (77 600)
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L830M or X120M	830 <sup>b</sup> (120 400) <sup>b</sup>	1050 <sup>b</sup> (152 300) <sup>b</sup>	915 (132 700)	1 145 (166 100)	0.99 <sup>b</sup>	f	915 (132 700)

# Api 5l 45 Edition

**John W. Gascoyne**



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**Standard Handbook of Petroleum and Natural Gas Engineering** William Lyons, Gary J Plisga BS, Michael Lorenz, 2015-12-08 Standard Handbook of Petroleum and Natural Gas Engineering Third Edition provides you with the best state of the art coverage for every aspect of petroleum and natural gas engineering With thousands of illustrations and 1 600 information packed pages this handbook is a handy and valuable reference Written by dozens of leading industry experts and academics the book provides the best most comprehensive source of petroleum engineering information available Now in an easy to use single volume format this classic is one of the true must haves in any petroleum or natural gas engineer s library A classic for over 65 years this book is the most comprehensive source for the newest developments advances and procedures in the oil and gas industry New to this edition are materials covering everything from drilling and production to the economics of the oil patch Updated sections include underbalanced drilling integrated reservoir management and environmental health and safety The sections on natural gas have been updated with new sections on natural gas liquefaction processing natural gas distribution and transport Additionally there are updated and new sections on offshore equipment and operations subsea connection systems production control systems and subsea control systems Standard Handbook of Petroleum and Natural Gas Engineering Third Edition is a one stop training tool for any new petroleum engineer or veteran looking for a daily practical reference Presents new and updated sections in drilling and production Covers all calculations tables and equations for every day petroleum engineers Features new sections on today s unconventional resources and reservoirs

**History of Line Pipe Manufacturing in North America** J. F. Kiefner, Edward B. Clark, 1996 This document s purpose is to provide pipeline operators with historical data on line pipe so that they will be able to operate their pipelines particularly the older ones with greater confidence in their safety and reliability The document is comprised of four major sections The first explains the manufacturing processes that have been and are being used to make line pipe The second presents tables by type of pipe listing the manufacturers of line pipe past and present in North America At the end of this section some techniques for identifying unknown pipe samples are presented In the third section the API line pipe specifications as they have evolved since 1928 are reviewed The fourth section is a glossary of terms frequently associated with line pipe manufacturing

**Federal Register** , 2013-08

**Materials Characterization** Ramiro Pérez Campos, Antonio Contreras Cuevas, Rodrigo Esparza Muñoz, 2015-04-27 This book covers novel research results for process and techniques of materials characterization for a wide range of materials The authors provide a comprehensive overview of the aspects of structural and chemical characterization of these materials The articles contained in this book covers state of the art and experimental techniques commonly used in modern materials characterization The book includes theoretical models and numerous illustrations of structural and chemical characterization properties

**Microbiologically Influenced Corrosion in the Upstream Oil and Gas Industry** Torben Lund Skovhus, Dennis Enning, Jason Lee, 2017-03-03

Microorganisms are ubiquitously present in petroleum reservoirs and the facilities that produce them. Pipelines, vessels, and other equipment used in upstream oil and gas operations provide a vast and predominantly anoxic environment for microorganisms to thrive. The biggest technical challenge resulting from microbial activity in these engineered environments is the impact on materials integrity. Oilfield microorganisms can affect materials integrity profoundly through a multitude of elusive biochemical mechanisms collectively referred to as microbiologically influenced corrosion (MIC). MIC is estimated to account for 20 to 30% of all corrosion-related costs in the oil and gas industry. This book is intended as a comprehensive reference for integrity engineers, production chemists, oilfield microbiologists, and scientists working in the field of petroleum microbiology or corrosion. Exhaustively researched by leaders from both industry and academia, this book discusses the latest technological and scientific advances as well as relevant case studies to convey to readers an understanding of MIC and its effective management.

Civil Engineering and Public Works Review, 1973     **New Civil Engineer**, 1973     *Erdemir Ürün Kataloğu*, Erdemir r n Katalo u     **ASME Guide for Gas Transmission and Distribution Piping Systems, 1983** American Society of Mechanical Engineers, 1983     *Code of Federal Regulations, Title 49, Transportation, PT. 178-199, Revised as of October 1, 2015* U S Office of the Federal Register, 2016-01-29. The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the United States Federal Government. This print ISBN is the official U S Federal Government edition. 49 CFR Parts 170 to 199 continues coverage on the Pipeline and Hazardous Materials Safety Administration within the United States Department of Transportation. In this volume, you will find processes, procedures, rules, and regulations relating to specifications for packaging, specification for tank cars, transportation of natural or other gas, reports including safety-related conditions and incident reports, federal safety standards, response plans for on-shore pipeline, plans for transportation of hazardous liquid by pipeline, regulations for grants to aid states, pipeline safety programs, and more. Truck tank drivers, railroad and maritime operators, and highway safety patrols, plus members of the Intermodal Association of North America and United Association of Pipeliners, may be interested in this volume. Environmentalists, especially environmental scientists and students pursuing coursework in environmental science, may find this regulatory volume an asset to research and Federal standards. Other related products: Emergency Response Guidebook 2012 (ERG 2012) can be found here: <https://bookstore.gpo.gov/products/sku/05000005968>. Unlimited Possibilities Intelligence Support to the Deepwater Horizon Response can be found here: <https://bookstore.gpo.gov/products/sku/008020016349>. National Traffic Incident Management Responder Training Program Train the Trainer Guide can be found here: <https://bookstore.gpo.gov/products/sku/050001003473>. ctid: 199. Keywords: 49 CFR Parts 178-199, CFR 49 Parts 178-199, cfr 49 parts 178-199, united states department of transportation dot u s department of transportation dept of transportation transportation dept pipeline and hazardous materials safety transportation safety gas hazardous liquids grants state processes CBR oil and oil spills Federal safety standards pipeline safety     **Indian Trade**

**Journal** ,1979      **Supplement to the Official Journal of the European Communities** ,1994-04-19      **Gas Age** Ernest C. Brown, Frank R. Sprague, H. K. Landis, Floyd William Parsons, 1961-03 Includes summaries of proceedings and addresses of annual meetings of various gas associations L C set includes an index to these proceedings 1884 1902 issued as a supplement to Progressive age Feb 15 1910      *Structural Welding Code--steel* American Welding Society. Structural Welding Committee, 2000      *Recommended Practice for Planning, Designing, and Constructing Fixed Offshore Platforms* American Petroleum Institute, 1989      **Metallic Materials Specification Handbook** R. B. Ross, 1980      ISI International ,1991  
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