

Chemical composition for API 5L Sour Service Pipe with wall thickness ≤ 25.0 mm (0.984 in)

Steel Grade (Steel Name)	Mass fraction, based upon heat and product analyses									Carbon equivalent % maximum	
	% maximum										
	C ^a	Si	Mn ^b	P	S	V	Nb	Ti	other ^{c,d}	CE _{min}	CE _{nom}
Seamless and welded pipes											
L245NS or BNS	0.14	0.40	1.35	0.020	0.003 ^e	-	-	0.04	g	0.36	0.19 ^h
L290NS or X42NS	0.14	0.40	1.35	0.020	0.003 ^e	0.05	0.05	0.04	-	0.36	0.19 ^h
L320NS or X46NS	0.14	0.40	1.40	0.020	0.003 ^e	0.07	0.05	0.04	g	0.38	0.20 ^h
L360NS or X52NS	0.16	0.45	1.65	0.020	0.003 ^e	0.10	0.05	0.04	g	0.43	0.22 ^h
L245QS or XQBS	0.14	0.40	1.35	0.020	0.003 ^e	0.04	0.04	0.04	-	0.34	0.19 ^h
L290QS or X42QS	0.14	0.40	1.35	0.020	0.003 ^e	0.04	0.04	0.04	-	0.34	0.19 ^h
L320QS or X46QS	0.15	0.45	1.40	0.020	0.003 ^e	0.05	0.05	0.04	-	0.36	0.20 ^h
L360QS or X52QS	0.16	0.45	1.65	0.020	0.003 ^e	0.07	0.05	0.04	g	0.39	0.20 ^h
L390QS or X56QS	0.16	0.45	1.65	0.020	0.003 ^e	0.07	0.05	0.04	g	0.40	0.21 ^h
L415QS or X60QS	0.16	0.45	1.65	0.020	0.003 ^e	0.08	0.05	0.04	g,i,k	0.41	0.22 ^h
L450QS or X65QS	0.16	0.45	1.65	0.020	0.003 ^e	0.09	0.05	0.06	g,i,k	0.42	0.22 ^h
L485QS or X70QS	0.16	0.45	1.65	0.020	0.003 ^e	0.09	0.05	0.06	g,i,k	0.42	0.22 ^h
Welded pipe											
L245MS or BMS	0.10	0.40	1.25	0.020	0.002 ^e	0.04	0.04	0.04	-	-	0.19
L290MS or X42MS	0.10	0.40	1.25	0.020	0.002 ^e	0.04	0.04	0.04	-	-	0.19
L320MS or X46MS	0.10	0.45	1.35	0.020	0.002 ^e	0.05	0.05	0.04	-	-	0.20
L360MS or X52MS	0.10	0.45	1.45	0.020	0.002 ^e	0.05	0.06	0.04	-	-	0.20
L390MS or X56MS	0.10	0.45	1.45	0.020	0.002 ^e	0.06	0.08	0.04	g	-	0.21
L415MS or X60MS	0.10	0.45	1.45	0.020	0.002 ^e	0.08	0.08	0.06	g,i	-	0.21
L450MS or X65MS	0.10	0.45	1.60	0.020	0.002 ^e	0.10	0.08	0.06	g,i,k	-	0.22
L485MS or X70MS	0.10	0.45	1.60	0.020	0.002 ^e	0.10	0.08	0.06	g,i,k	-	0.22

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ANCILLARY EQUIPMENT AND ELECTRICAL EQUIPMENT - Volume I, 2010-12-03 Ancillary Equipment and Electrical Equipment is a component of Encyclopedia of Water Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The volume presents state of the art subject matter of various aspects of Ancillary Equipment And Electrical Equipment such as Seawater Supply Pump Cooling Water Recirculation Pump Brine Recirculation Pump Brine Blowdown Pump Brine Heater Condensate Pump Minor Pumps For Desalination Plants The Installation Criteria And The Layout Hydraulic Aspects In Design And Operation Of Axial Flow Pumps Description Of Surface Vortices With Regard To Common Design Criteria Of Intake Chambers Vacuum Creating Equipment Filtering Equipment Chemical Dosing Stations On Load Sponge Ball Cleaning System Power Supply Systems And Electrical Equipment For Desalination Plants Composite Materials For Pressure Vessels And Pipes Thermal Stresses In Vessels Piping And Components Pressure Vessels And Piping Systems Reliability Risk And Safety Assessment Pressure Vessels And Shell Structures Pipeline Operations Steel And Pipe Mill Technology Pipeline Structural Integrity Pipeline System Automation And Control Pump And Compressor Operation Environmental Conservation Practices For Pipelines This volume is aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy and Decision Makers

Corrosion Atlas Case Studies Fuad Khoshnaw, 2025-09-23 Corrosion Atlas Case Studies 2025 Edition gives engineers expedient corrosion solutions for common industrial equipment no matter the industry Providing a purely operational level view this reference is designed as concise case studies categorized by material It includes content surrounding the phenomenon equipment appearance supported by a color image time of service conditions where the corrosion occurred cause and suggested remedies within each case study Rounding out with an introductory foundational layer of corrosion principles this book delivers what is needed to solve equipment corrosion problems Finally additional reference listings for deeper understanding beyond the practical elements are also included Solves equipment failure with easy to find remedies organized by essential elements such as materials system part cause environmental and phenomenon Covers fundamental corrosion elements on all major industrial pieces of equipment no matter the industry Identifies failures by appearance with color figures within each case study Provides correlations between avoiding corrosion net zero and sustainability

Arctic Pipeline Planning Ramesh Singh, 2013-08-08 Utilize the most recent developments to combat challenges such as ice mechanics The perfect companion for engineers wishing to learn state of the art methods or further develop their knowledge of best practice techniques Arctic Pipeline Planning provides a working knowledge of the technology and techniques for laying pipelines in the coldest regions of the world Arctic Pipeline Planning provides must have elements that can be utilized through all phases of arctic pipeline planning and construction This includes information on how to Solve challenges in designing arctic pipelines Protect pipelines from

everyday threats such as ice gouging and permafrost Maintain safety and communication for construction workers while supporting typical codes and standards Covers such issues as land survey trenching or above ground environmental impact of construction Provides on site problem solving techniques utilized through all phases of arctic pipeline planning and construction Is packed with easy to read and understandable tables and bullet lists *Oil and Gas Pipelines* R. Winston Revie,2025-03-18 Discover the integrity safety and security of new and aging oil and gas pipelines in this comprehensive reference guide Oil and gas pipelines are typically used to transport oil and gas but can be adapted to transport ethanol carbon dioxide hydrogen and more A pipeline network is an efficient method for transporting any number of energy providing products but safety and integrity are critical aspects of pipeline integrity management The demand for pipeline safety and security is increasing in the face of more stringent standards and deepening environmental concerns including those related to climate change *Oil and Gas Pipelines Integrity Safety and Security Handbook* provides a comprehensive introduction to the integrity of new and aging pipelines and their management repair and maintenance All major varieties of pipeline are included along with all pertinent public safety and environmental protections Now fully updated to reflect the latest research and technological developments the book is a critical contribution to the reliability and safety of the global energy grid and ongoing efforts at carbon capture utilization and storage Readers of the second edition of *Oil and Gas Pipelines* will also find 26 new chapters including a new section on the digitalization of pipelines Detailed discussion of topics including management of geohazards mechanical damage internal corrosion monitoring and many more Extensive case histories with practical accompanying solutions *Oil and Gas Pipelines* is ideal for engineers scientists technologists environmentalists students and others who need to understand the basics of pipeline technology as it pertains to energy deliverability environmental protection public safety and the important role of pipelines and pipeline security to ensure energy security during the energy transition

Phosphorus Recovery and Recycling Hisao Ohtake,Satoshi Tsuneda,2018-05-25 This book focuses on the engineering aspects of phosphorus P recovery and recycling presenting recent research advances and applications of technologies in this important and challenging area of engineering It highlights full scale applications to illustrate the performance and effectiveness of the new technologies As an essential element for all living organisms P cannot be replaced by any other element in biochemical processes humans ultimately rely its availability Today P is mostly obtained from mined rock phosphate P_i However natural reserves of high grade rock P_i are limited and dwindling on a global scale As such there have been increased efforts to recycle P from secondary sources including sewage sludge animal manure food waste and steelmaking slag and so close the anthropogenic P cycle In addition to various aspects of phosphorus covered by other literature including chemistry biochemistry ecology soil plant systems and sustainable management this book is a valuable and comprehensive source of information on the rapidly evolving field of P recovery and recycling engineering for students researchers and professionals responsible for sustainable use of phosphorus **Code of**

Federal Regulations, Title 49, Transportation, PT. 178-199, Revised as of October 1, 2014 U S Office of the Federal Register,2015-02-20 Code of Federal Regulations, Title 49, Transportation, Pt. 178-199, Revised as of October 1 2011
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