

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

Api 5l 45 Edition

**William Lyons, Gary J Plisga BS, Michael
Lorenz**

Api 5l 45 Edition:

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 bio chemical 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

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