

Chemical composition for API SL 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 <sup>a</sup>	Si	Mn <sup>b</sup>	P	S	V	Nb	Ti	other <sup>c,d</sup>	CE <sub>mm</sub>	CE <sub>pm</sub>
Seamless and welded pipes											
L245NS or BNS	0.14	0.40	1.35	0.020	0.003 <sup>e</sup>			0.04	8	0.36	0.19 <sup>b</sup>
L290NS or X42NS	0.14	0.40	1.35	0.020	0.003 <sup>e</sup>	0.05	0.05	0.04	-	0.36	0.19 <sup>b</sup>
L320NS or X46NS	0.14	0.40	1.40	0.020	0.003 <sup>e</sup>	0.07	0.05	0.04	8	0.38	0.20 <sup>b</sup>
L360NS or X52NS	0.16	0.45	1.65	0.020	0.003 <sup>e</sup>	0.10	0.05	0.04	8	0.43	0.22 <sup>b</sup>
L245QS or XQ8S	0.14	0.40	1.35	0.020	0.003 <sup>e</sup>	0.04	0.04	0.04	-	0.34	0.19 <sup>b</sup>
L290QS or X42QS	0.14	0.40	1.35	0.020	0.003 <sup>e</sup>	0.04	0.04	0.04	-	0.34	0.19 <sup>b</sup>
L320QS or X46QS	0.15	0.45	1.40	0.020	0.003 <sup>e</sup>	0.05	0.05	0.04	-	0.36	0.20 <sup>b</sup>
L360QS or X52QS	0.16	0.45	1.65	0.020	0.003 <sup>e</sup>	0.07	0.05	0.04	8	0.39	0.20 <sup>b</sup>
L390QS or X56QS	0.16	0.45	1.65	0.020	0.003 <sup>e</sup>	0.07	0.05	0.04	8	0.40	0.21 <sup>b</sup>
L415QS or X60QS	0.16	0.45	1.65	0.020	0.003 <sup>e</sup>	0.08	0.05	0.04	g,j,k	0.41	0.22 <sup>b</sup>
L450QS or X65QS	0.16	0.45	1.65	0.020	0.003 <sup>e</sup>	0.09	0.05	0.06	g,j,k	0.42	0.22 <sup>b</sup>
L485QS or X70QS	0.16	0.45	1.65	0.020	0.003 <sup>e</sup>	0.09	0.05	0.06	g,j,k	0.42	0.22 <sup>b</sup>
welded pipe											
L245MS or BMS	0.10	0.40	1.25	0.020	0.002 <sup>e</sup>	0.04	0.04	0.04	-	-	0.19
L290MS or X42MS	0.10	0.40	1.25	0.020	0.002 <sup>e</sup>	0.04	0.04	0.04	-	-	0.19
L320MS or X46MS	0.10	0.45	1.35	0.020	0.002 <sup>e</sup>	0.05	0.05	0.04	-	-	0.20
L360MS or X52MS	0.10	0.45	1.45	0.020	0.002 <sup>e</sup>	0.05	0.06	0.04	-	-	0.20
L390MS or X56MS	0.10	0.45	1.45	0.020	0.002 <sup>e</sup>	0.06	0.08	0.04	8	-	0.21
L415MS or X60MS	0.10	0.45	1.45	0.020	0.002 <sup>e</sup>	0.08	0.08	0.06	g,j	-	0.21
L450MS or X65MS	0.10	0.45	1.60	0.020	0.002 <sup>e</sup>	0.10	0.08	0.06	g,j,k	-	0.22
L485MS or X70MS	0.10	0.45	1.60	0.020	0.002 <sup>e</sup>	0.10	0.08	0.06	g,j,k	-	0.22

# Api 5l 45 Edition

**G Thomas**

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**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

**Federal Register** ,2013-08

**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

*Erdemir Ürün Kataloğu , Erdemir r n Katalo u*

*Metallic Materials Specification Handbook* R.B. Ross,1992 It is nowten

yearssince the thirdditionofMetallicMaterials andovertwentyssince thefirst edition Overthis periodtheworkhasbeenextensivelyused as acomprehensivesourcebook by all those concerned with the use of engineering materials Since the third edition there have been a number of basic changes in the methods of specifyingmaterials Probably the mostimportantofwhich is the introductionofthe Unified Numbering System UNS These codes are issued in agreement between the Society of AutomotiveEngineers SAE and the American SocietyforTestingandMaterials ASTM and reflect the acknowledgement of a need for a numbering system with some logic The UNS codes have been issued to cover all the trade names codes and specifications used in the US and cognizance has been takenofcodes used inother areas The codes have a letter prefix A for aluminium C for copper etc followed by a 5 figure code This refers to a basic analysis and lists US specifications and trade names covered by this analysis This edition of Metallic Materials lists approximately 4 000 UNS codes and refers the reader either to the basic analysis for this code or to one of the existing specifications or trade names covered by the code In this edition steps have been taken to update the trade names and specifications to eliminate mistakes and to supply asmuchcontemporaryinformation as possible Theextent ofthe additions has made it necessary to examine the way that someofthe specifications are known under various designations and the implicationsofthis examination are

explained in the How to use this book section New Civil Engineer ,1973 *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

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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 *ASME Guide for Gas Transmission and Distribution Piping Systems*, 1983 American Society of Mechanical Engineers,1983

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