

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 44th Edition

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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

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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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