



BOLU PIPE CO., LTD.

MILL TEST CERTIFICATES

EN10204/3.1

Address: 7742 M.G. T.Mayyengpon A.Pluakdaeng

Rayong, 21140,Thailand

Phone Number:+66-33-010-907,+66-33-010-909

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CUSTOMER												PRODUCT		NEW PRIME SEAMLESS STEEL PIPE																			
PURCHASER												ORDER NO.		2014001-23																			
Standard		API spec. 5L 2012 ;ASTM A106-GRADE B 2011;ASME SA106-GRADE B 2011; ASTM A53-GRADE S 2012;ASME SA53-GRADE B 2011;ASTM A530-12										SIC:NO		/		API Cert NO.		5L-0986 (4)															
Grade		X42B PSL1										L/C NO :		/		DATE		2014-8-25 (5)															
Size		8.625*10.500				Length range				DRL		Total Length (FT)		55*10.5		Total Bundles		445		Order Quantity (MT)		1112											
Total Joints		1321		Total Weight (MT)		1112.844		Delivery Condition				CHAMFER		Making Method				Hot Finished, Seamless															
No.	Heat No	Chemical Composition (%)														Batch No.	Mechanical Properties			Inspect Test				Hardness	Quantity	Length	Weight						
		1=X10,2=X100,3=X1000,4=X10000,5=X100000															Y.S.	T.S.	E.L %	(Temperature 0o C)													
		C	Si	Mn	P	S	Cr	Ni	Cu	Mo	V	Ti	Nb	Al	min	max				min	max	min	max	min	max	min	max	min	max	min	max	min	max
		28																															
1	14E100689	H	17	25	105	14	4	35	2	4.2	6	20																					
		P	16	23	103	13	3	33	2	3.9	5	18																					
		P	15	24	104	12	2	34	1	4.1	4	19																					
2	14E100690	H	17	25	104	13	2	34.3	2.1	4	5	20																					
		P	15	23	103	12	1	34.3	2.1	2	4	17																					
		P	18	24	102	12	2	34.3	1.9	3	3	18																					
3	14E100691	H	17	28	108	13	2	35.4	2.1	5	5	20																					
		P	15	26	106	11	1	35.2	2.1	3	4	17																					
		P	16	27	107	12	2	35.3	1.9	4	4	19																					
4	14E100692	H	17	23	108	13	2	36.4	2.1	5	5	20																					
		P	15	26	106	11	1	36.2	2.1	3	4	17																					
		P	18	27	107	12	2	35.3	1.9	4	4	19																					
E.T		E.M.		PASS		U.T		/		M.P.J		PASS		Coating		PASS		Visual		PASS		Pipe ends Land(1.8±0.8)mm		PASS		Orli Test							
Expansion		Residual Magnesium Measurement				Flattening				Bending				Hydrostatic Test (20.5MPa/6s)				Chamfer Inspection (3D*5)				Heat Treatment				O.D Size		LD Size		W.T.Measure			
/		PASS				PASS				/				PASS				/				PASS		PASS		PASS		PASS					
NOTES		G.L.=Gauge Length *1 Process C= Electric Furnace & Continuous Casting *2 Chemical Composition HeHeat[anle]Analysis *3 Sampling Position P=Pipe Body *4 Sqz 2= 8mpTX38mm																															
INSPECTORS TO		WE HEREBY CERTIFY THAT THE MATERIAL HEREIN DESCRIBED HAS BEEN MANUFACTURED SAMPLED. TESTED AND INSPECTED IN ACCORDANCE WITH THE REQUIREMENT																															
Shi Xiu Zong		THE ABOVE SPECIFICATIONS AND PURCHASE ORDER.WE HEREBY CERTIFY THAT THE MATERIAL ARE MERCURY FREE /NO WELD REPAIR FINE GRAIN PRACTICE MEETS HARDNESS PER ANSINAGE MR0175150 1515&2009.MEETS HARDNESS FOR NACE MR-0103.																		Q.A Signature													
																				Yang van Bin													



BOLY PIPE CO., LTD.

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Address: 7/342 M.6. T.Matyangpon A.Phuakdaeng

Rayong, 21140, Thailand

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CUSTOMER												PRODUCT		NEW PRIME SEAMLESS STEEL PIPE																																
PURCHASER												ORDER NO.		2014001-23																																
Standard		API spec 5L 2012 ;ASTM A105-GRADE B 2011;ASME SA105-GRADE B 2011; ASTM A53-GRADE B 2012;ASME SA53-GRADE B 2011;ASTM A530-12										S/C NO.		/			API Cert. NO.			5L-0856																										
Grade		X42B PSL1										U/C NO.		/			DATE			2014-8-25																										
Spec		5 625*10 500"					Length range					DRL					Total Length (FY)		85416.94		Total Bundles		445		Order Quantity (MT)		1112																			
Total Joints		1221		Total Weight (MT)		1112.844		Delivery Condition					CHAMFER					Milling Method					Hot Finish, Seamless																							
No.	Hco No	Chemical Composition (%)															Batch No.	Mechanical Properties					Impact Test				Hardness	Quantity	Length	Weight																
		1=X10.2,2=X100,3=X1000,4=X10000,5=X100000																					(Temperature In C)																							
		1	2	2	2	3	3	2	2	2	2	3	3	3	3	3		3	4	Y.S.	T.S.	E.L.%	Size (mm)	1	2	3					AVG	HB	Bundle	Jts	FT	MT										
min																min	Mpa	280	415	29.5						[AVG]																				
																max										<225																				
5	14E100692	H	16	25	105	12	1	35.5	2.2	5.1	6	20				YLJ11405048	365	545	32						162	32	86	4031.75	80.968																	
		P	15	23	105	10	1	35.2	2.3	4.8	5	18																																		
		P	14	24	104	11	1	36.4	2.1	5.1	4	19																																		
6	14E100693	H	17	28	108	11	1	34.5	2.3	4.5	5	20				YLJ11405038	375	550	33						183	30	86	3095.87	74.148																	
		P	15	23	108	9	1	34.2	2.1	4.6	4	18																																		
		P	16	24	103	10	1	34.3	2.2	4.5	3	17																																		
7	14E100696	H	17	25	109	11	1	34.6	2.5	4.9	5	20				YLJ21405053	385	580	31.5						189	3	8	334.56	8.748																	
		P	15	23	108	9	1	34.2	2.1	4.6	4	18																																		
		P	15	24	108	10	1	34.3	2.2	4.6	3	17																																		
8	14E100694	H	16	22	104	11	1	34.5	2.3	4.8	7	20				YLJ11405037	400	540	38						180	24	72	3025.34	60.89																	
		P	15	20	103	9	1	34.3	2.1	4.4	6	17																																		
		P	14	21	102	10	1	34.2	2.2	4.3	5	19																																		
E.T		E.M.I		PASS		U.T				M.P.I		PASS		Coating		PASS		Visual		PASS		Pipe ends Land(1.6±0.8)mm		PASS		Drift Test																				
Expansion		Residual Magnetism Measurement					Flattening					Bending					Hydrostatic Test (20.5MPa/6s)					Charter Inspection (30±5)°					Heat Treatment					O.D Size					I.D Size					W.T Measure				
/		PASS					PASS					/					PASS					/					PASS					PASS					PASS									
NOTES		G.L.=Gauge Length *1 Process C= Electric Furnace & Continuous Casting *2 Chemical Composition H=Heat(ttle)Analysis *3 Sampling Position P=Pipe Body *4 Size 2= 3mpT038mm																																												
INSPECTORS TO		WE HEREBY CERTIFY THAT THE MATERIAL HEREIN DESCRIBED HAS BEEN MANUFACTURED SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH THE REQUIREMENT																				C.A Signature																								
SMA Xia Jang		THE ABOVE SPECIFICATIONS AND PURCHASE ORDER, WE HEREBY CERTIFY THAT THE MATERIAL ARE MERCURY FREE / NO WELD REPAIR FINE GRAIN PRACTICE, MEETS HARDNESS PER ANSI/NACE MR0175/ISO 15156:2009, MEETS HARDNESS FOR NACE MR-0103																				Yang Buan Bin																								







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CUSTOMER												PRODUCT		NEW PRIME SEAMLESS STEEL PIPE															
PURCHASER												ORDER NO		2014001-23															
Standard		API spec. 5L 2012 / ASTM A106-GRADE B 2011; ASME SA106-GRADE B 2011; ASTM A53-GRADE B 2012; ASME SA53-GRADE B 2011; ASTM A530-12										S/C NO:		/		API Cert. NO		5L-0956											
Grade		X42/B PSL1										L/C NO.		/		DATE		2014-8-25											
Size		6.025"X0.500"			Length range			DRL			Total Length (FT)		65416.94		Total Bundles		445		Order Quantity (MT)		1112								
Total Joints		132		Total Weight (MT)		1112.944		Delivery Condition				CHAMFER		Making Method				Hot Finished, Seamless											
No.	Heat No	Chemical Composition (%)														Batch No.	Mechanical Properties					Impact Test				Hardness	Quantity	Length	Weight
		1=X10.2=X100.5=X1000.4=X10000.5=X100000															Y.S.	T.S.	E.L.%	Temperature (°C)			HB (AVG)	Bundle	Jts				
		2	C	Si	Mn	P	S	Cr	Ni	Cu	Mo	V	Ti	Nb	Al	3				4	1	2				3	AVG	mm	mm
min																		290	415	29.5	Size (mm)								
max		2E														mm	Mpa												
17	14E100606	H	17	23	105	14	1	34.5	2.1	4.5	7	20				YLJ11405043	470	595	38.5				183	38	113	4740.93	95.33		
		P	16	21	103	12	1	34.4	2.1	4.5	8	17																	
		P	16	22	104	13	1	34.3	1.7	4.5	5	18																	
18	14E100700	H	18	24	105	10	1	34.7	2.2	5.1	7	20				YLJ11405041	430	580	38				166	47	141	5921.19	118.828		
		P	16	23	103	8	1	34.5	2.1	4.8	8	18																	
		P	17	22	104	9	1	34.6	2.3	5.1	7	19																	
19	14E100701	H	17	23	104	12	1	34.9	2.2	5.1	8	20				YLJ21405040	395	535	38				157	18	48	2013.80	40.922		
		P	16	20	103	10	1	34.5	2.1	4.7	7	17																	
		P	15	21	102	11	1	34.6	1.9	4.6	8	19																	
20	14E100702	H	17	25	104	15	1	33.3	2.2	5.4	5	20				YLJ21405039	405	545	38				162	26	77	3232.62	65.272		
		P	15	23	103	13	1	33.1	2.2	5.2	4	19																	
		P	16	24	102	14	1	33.2	2.1	5.1	3	19																	
ET		E.M.I		PASS		U.T		/		M.P.I		PASS		Coating		PASS		Visual		PASS		Pipe ends Land(1.6±0.3)mm		PASS		Dml Test			
Expansion		Residual Magnetism Measurement				Flattening		Bending		Hydrostatic Test (20.5MPa/3s)				Charfor Inspection (30±5)°		Heat Treatment		O.D Size		I.O Size		W.T.Measure							
/		PASS				PASS		/		PASS				PASS		/		PASS		PASS		PASS							
NOTES		G.L.=Gauge Length *1 Process C= Electric Furnace & Continuous Casting *2 Chemical Composition H=Heat(heat)Analysis *3 Sampling Position P=Pipe Body *4 Size 2= Size TX38mm																											
INSPECTORS TO		WE HEREBY CERTIFY THAT THE MATERIAL HEREIN DESCRIBED HAS BEEN MANUFACTURED SAMPLED. TESTED AND INSPECTED IN ACCORDANCE WITH THE REQUIREMENT																		O.A Signature									
Shu Xiu Fan		THE ABOVE SPECIFICATIONS AND PURCHASE ORDER.WE HEREBY CERTIFY THAT THE MATERIAL ARE MERCURY FREE / NO WELD REPAIR FINE GRAIN PRACTICE. MEETS HARDNESS PER: ANSINACE MR0175/ISO 15165-2009.MEETS HARDNESS FOR NACE MR-0103.																		Yang Duan Qian									

