

HEBEI LITON LIAN SEAMLESS STEEL PIPE CO.,LTD

MILL'S TEST CERTIFICATE

EN10204 3.1|ISO 10474 3.1B

Contract No.: 504/8524	Product: SEAMLESS STEEL PIPES	Steel Grade: X42	Total pieces: 385
5L certificate No.: 5L-0630	Purchaser: CNOOD ASIA LIMITED	Dated: 26/08/2010	Total meter: 4025.21
Quality certificate No.: CNQC201007010	Standard: API 5L PSL1	Manu. Method: hot finished	Total weight(metric-ton): 673.63

NO.	Heat No.	Batch No.	QUANTITY			SIZES			Tensile Test						Impact Test		Hardness Value	Flattening	Flaring	Cold Bending
						OD	WD	LENGTH	*1	*2	*3	Y.S Mpa	T.S Mpa	E.L (%)	Dimen. (mm)	Tem. (°C)				
			INCH	MM	METER	AK Tran.	AK Longi.													
1	301180	Z-535-2	39	414.06	43.56	18	SCH STD	10-11	p	L	I	300	485	38					G	
2	800772	Z-532-3	85	896.62	94.33	18	SCH STD	10-11	p	L	I	310	490	36					G	
3	804337	Z-538-3	52	542.48	84.55	18	SCH 40	10-12	p	L	I	309	489	34					G	
4	596954	Z-541-1	31	330.15	84.08	18	SCH 80	6-8	p	L	I	300	470	34					G	
5	804001	Z-543-2	42	461.60	84.67	20	SCH 40	10-12	p	L	I	305	495	39					G	
6	198240	Z-514-3	27	291.95	41.17	24	SCH STD	MIN.10	p	L	I	310	500	37					G	
7	196237	Z-520-1	30	322.14	45.43	24	SCH STD	MIN.10	p	L	I	306	476	33					G	
8	196239	Z-517-2	28	296.81	41.86	24	SCH STD	MIN.10	p	L	I	300	490	38					G	
9	904343	Z-523-3	27	286.21	73.05	24	SCH 40	MIN. 9	p	L	I	308	498	36					G	
10	499682	Z-525-2	16	122.79	54.25	24	SCH 80	6-7.5	p	L	I	306	497	36					G	
11	900873	Z-530-1	8	60.40	26.68	24	SCH 80	6-7.5	p	L	I	311	497	34					G	

ORIGINAL

NO.	Chemical composition(%)												Metallogical Analysis			
	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Nb	Ti	Micro Structure	Grain Size	Decarborized(mm)	
															out	in
1	0.20	0.22	0.52	0.011	0.015	0.028	0.028	0.004	0.026	0.001	<0.001	0.002				
2	0.19	0.25	0.48	0.013	0.012	0.032	0.027	0.002	0.032	0.002	<0.001	0.002				
3	0.21	0.20	0.50	0.010	0.010	0.026	0.031	0.003	0.028	0.001	<0.001	0.002				
4	0.18	0.22	0.53	0.015	0.014	0.031	0.026	0.003	0.030	0.001	<0.001	0.002				
5	0.21	0.23	0.51	0.008	0.011	0.030	0.027	0.004	0.035	0.002	<0.001	0.002				
6	0.20	0.25	0.50	0.010	0.013	0.024	0.032	0.004	0.028	0.001	<0.001	0.002				
7	0.21	0.22	0.49	0.008	0.009	0.027	0.027	0.003	0.032	0.002	<0.001	0.003				
8	0.18	0.21	0.53	0.012	0.011	0.030	0.034	0.002	0.030	0.001	<0.001	0.002				
9	0.20	0.24	0.52	0.009	0.012	0.026	0.026	0.004	0.033	0.002	<0.001	0.003				
10	0.19	0.22	0.48	0.014	0.014	0.032	0.028	0.005	0.025	0.002	<0.001	0.002				
11	0.21	0.23	0.51	0.011	0.010	0.026	0.030	0.002	0.027	0.002	<0.001	0.002				

TUBOS Y BARRAS HUECAS
 DE MEXICO, S.A. DE C.V.
 CLIENTE: CNOOD
 08 DIC. 2010
 PEDIDO: 270430
 CANTIDAD: 107

Hydra. Test	NDE(100%)		We hereby certified that all pipes are manufactured and inspected according to above standards and order.
G	G		Seal for certification

ark: Dimen.=Dimension; Tem.=Temperature; Speci.=Specification; Manu.=Manufacture; G=Good; Tran.=Transverse; Longi.=Longitudinal; NDE=non-destructive inspection; *1=sampling position. p=pipe
 *2=Orientation, L=Longitudinal; *3=Temp: l=10°C—35°C



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