



MILL TEST CERTIFICATE (EN10204-3.1)

CUSTOMER: PERFI-TUBOS Y ACCESORIOS, S.A. DE C.V.
 PRODUCT: PRIMLY NEWLY PRODUCED CARBON SEAMLESS PIPE
 SPEC: API 5L (43rd EDITION) GR.B PSL1 / X42 / ASTM A53B / A106B

ISO. REGISTRATION NO: 44 100 072544
 CONTRACT
 CERTIFICATE NUMBER: 10268-07

TOTAL:		29 BUNDLES		1647 PIECES		57076 KG		PACKING IN BUNDLES										
NO.	HEAT NO.	LOT NO.	STEEL GRADE	SIZE (MM)	PCS	WEIGHT Kg	CHEMICAL COMPOSITION (Ladle Analysis) %											
							C	Si	Mn	P	S	Cr	Ni	Cu	Mo	V.	Ti	Al.
1	11-110975	1B396	B/X42 PSL1	1-1/2"XSCH80X6.4M	222	7693	0.19	0.22	0.53	0.014	0.007	0.04	0.02	0.02	0.001	0.002	—	—
2	11-110976	1B400	B/X42 PSL1	1-1/2"XSCH80X6.4M	116	4020	0.18	0.20	0.51	0.016	0.009	0.05	0.02	0.02	0.001	0.002	—	—
3	11-210985	1B401	B/X42 PSL1	1-1/2"XSCH80X6.4M	366	12684	0.20	0.22	0.52	0.013	0.005	0.06	0.02	0.02	0.001	0.003	—	—
4	11-210985	1B408	B/X42 PSL1	1-1/2"XSCH80X6.4M	300	10396	0.20	0.22	0.52	0.013	0.005	0.06	0.02	0.02	0.001	0.003	—	—
5	11-210986	1B409	B/X42 PSL1	1-1/2"XSCH80X6.4M	279	9669	0.20	0.21	0.51	0.018	0.006	0.07	0.02	0.02	0.001	0.003	—	—
6	11-111180	1C393	B/X42 PSL1	1-1/2"XSCH80X6.4M	364	12614	0.18	0.22	0.52	0.021	0.005	0.03	0.01	0.01	0.001	0.003	—	—
NO.	MECHANICAL PROPERTIES				TECHNOLOGICAL PROPERTIES			NONDESTRUCTIVE TEST			SURFACE QUALITY		DIMENSION TOLERANCE					
	ReL (MPa) YIELD STRENGTH	Rm (MPa) TENSILE STRENGTH	ELONGATION A%	HARDNESS HRB	FLATTENING TEST	FLARING TEST	BENDING	H.T	ET	UT	IN	OUT	O.D.	W.T.				
1	325/330	500/500	30.5/29	—	—	—	Satisfactory	Satisfactory	Satisfactory	—	Satisfactory	Satisfactory	Satisfactory	Satisfactory				
2	325/320	500/490	32/34	—	—	—	Satisfactory	Satisfactory	Satisfactory	—	Satisfactory	Satisfactory	Satisfactory	Satisfactory				
3	335/325	510/500	31.5/33	—	—	—	Satisfactory	Satisfactory	Satisfactory	—	Satisfactory	Satisfactory	Satisfactory	Satisfactory				
4	340/330	510/500	30.5/34	—	—	—	Satisfactory	Satisfactory	Satisfactory	—	Satisfactory	Satisfactory	Satisfactory	Satisfactory				
5	330/330	500/485	33/30	—	—	—	Satisfactory	Satisfactory	Satisfactory	—	Satisfactory	Satisfactory	Satisfactory	Satisfactory				
6	350/345	455/445	34.5/36.5	—	—	—	Satisfactory	Satisfactory	Satisfactory	—	Satisfactory	Satisfactory	Satisfactory	Satisfactory				

DATE: NOV. 24, 2011