



Quality and Service
 8D, MIHAJ VITEAZU NR.33
 4700 ZALAU
 ROMANIA

SILCOTUB SA

MILL TEST CERTIFICATE
 ACCORDING TO EN 10204-1.8



DATE 11.02.2008	ORDER NO. PO 8840	REGISTRATION ASTM A 106/1099; ASTM A 137/1018	MATERIAL GRADE B	WAGON NO. 1 SWAP BODY NO. 1 TRUCK NO. 1	ITEM	LOT
DUFERCO SA VIA SMOURIN 4 6900 LUGAND SWITZERLAND						

No.	SIZE	HEAT NUMBER	NUMBER OF PIECES	NUMBER OF PIECES OF 137	LENGTH METERS	WEIGHT IN TON (NET WEIGHT)	NUMBER OF BUNDLES	ITEM	LOT
1	4" SCH 40 (114.30 x 6.02 mm)	22928	39		2482.073	40.833	31	S	
		22952	39						
		50106	59						
		22364	190						
		33394	19						
		34004	12						

DESCRIPTION
 TUBOS DE ACERO (SEAMLESS STEEL PIPES)
 (DUFERCO REF. NO. 195240)

No.	HEAT	Sample no.	CHEMICAL COMPOSITION %										OTHER TESTS				
			C	Mn	Si	P	S	Cr	Mo	Ni	NO	Cu	V	Furnacing	Seawing	Flaming	Hydrostatic PSI
1	22928	41640	0.085	0.733	0.298	0.021	0.017	0.008	0.105	0.019	0.278	0.002				2210	
	22928	41641	0.096	0.737	0.290	0.021	0.017	0.085	0.106	0.019	0.281	0.002				2210	
2	22952	41625	0.164	0.504	0.275	0.025	0.016	0.110	0.184	0.021	0.282	0.001				2210	
3	22952	41627	0.185	0.503	0.273	0.025	0.016	0.111	0.185	0.021	0.280	0.001				2210	
	50106	40582	0.156	0.592	0.328	0.014	0.011	0.137	0.165	0.021	0.271	0.001				2210	
	50106	40583	0.156	0.591	0.328	0.014	0.011	0.135	0.164	0.021	0.270	0.001				2210	
4	22364	40584	0.164	0.488	0.308	0.025	0.018	0.146	0.129	0.022	0.248	0.001				2210	
	22364	40585	0.163	0.487	0.308	0.025	0.018	0.146	0.129	0.022	0.248	0.001				2210	
5	33394	38137	0.208	0.511	0.233	0.009	0.012	0.132	0.122	0.013	0.185	0.004				2210	
	33394	38138	0.208	0.511	0.233	0.009	0.012	0.132	0.122	0.013	0.185	0.004				2210	
6	34004	39189	0.178	0.551	0.243	0.011	0.003	0.127	0.105	0.008	0.184	0.001				2210	
	34004	39190	0.176	0.551	0.244	0.011	0.003	0.128	0.105	0.008	0.183	0.001				2210	

No.	HEAT	Sample no.	TEST SPECIMEN			MECHANICAL PROPERTIES						REACTION			EMERGENT			TEMP.	SHEAR
			Dimensions Inch x Inch	Section Inch	Length Inch	Tensile Strength Min.	Tensile Strength Max.	Yield Strength Min.	Yield Strength Max.	Result PSI	Required Min.	Result %	1	2	3	Average			
1	22928	41640	0.86 x 0.23	0.22	2.00	60000	68170	65076	35000	44808	23.00	33.70							
2	22952	41625	0.96 x 0.24	0.23	2.00	60000	68170	68170	35000	45251	23.00	35.80							
3	22952	40582	0.97 x 0.24	0.24	2.00	60000	68648	68648	35000	43904	23.00	33.30							
4	22364	40584	0.87 x 0.24	0.24	2.00	60000	68582	68582	35000	44521	23.00	30.30							
5	33394	38137	0.99 x 0.23	0.23	2.00	60000	74103	74103	35000	48854	23.00	38.20							
6	34004	39189	0.99 x 0.23	0.23	2.00	60000	72966	72966	35000	49826	23.00	34.30							

SIGNATURE

QUALITY DEPT. CHIEF
 ING. TIBERIU ENOCHI

