



SILCOTUB SA

MILL TEST CERTIFICATE

ACCORDING TO EN 10228-1.8

Quality and Service
B.D. NIKHAI VITTEKUN NO.13
4700 ZALAM
ROMANIA

DATE

11.02.2002

ORDER NO. PO 108544

DESCRIPTION

ASTM A 1019/EN: ASTM A 131/EN:

SAVERS/BL
GRADE B

WAGGON NO.:
SWAP BODY NO.:
TRUCK NO.:

No. 4

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DIFERENCO SA
VIA SARUTTI 8
BORG LIGABO
SANTERAMO

No.	SIZE	HEAT NUMBER	NUMBER OF PIECES	NUMBER OF PIECES	LENGTH IN METERS	WEIGHT IN TON (NET WT)	NUMBER OF BUNDLES	ITEM	LOT
1	3" SCH 40 (88.90 x 6.48 mm.)	13498	36	304	3648.000	41.161	18	4	
		13472	54						
		13518	96						

TUBOS DE ACERO (SEAMLESS STEEL PIPES)
[DIFERENCO REF. NO. 108540]

PRODUCT ANALYSES

No.	HEAT	Sample no.	C	Mn	SI	P	S	CHEMICAL COMPOSITION %					Flame test	Bending	Folding	Hardness	Hidrenate PSI	NONDESTRUCTIVE TEST
								Cr	NI	Mo	Cu	V						
1	13498	41335	0.088	0.761	0.244	0.013	0.007	0.078	0.166	0.008	0.149	0.001	0.001	0.001	0.001	2500		
	13498	41336	0.086	0.761	0.241	0.013	0.007	0.078	0.166	0.008	0.149	0.001	0.001	0.001	0.001	2500		
2	13507	41331	0.083	0.776	0.263	0.013	0.007	0.073	0.168	0.008	0.151	0.001	0.001	0.001	0.001	2500		
	13507	41332	0.083	0.780	0.246	0.013	0.007	0.073	0.167	0.008	0.150	0.001	0.001	0.001	0.001	2500		
3	13472	41343	0.087	0.746	0.262	0.009	0.005	0.046	0.125	0.008	0.177	0.001	0.001	0.001	0.001	2500		
	13472	41344	0.087	0.749	0.260	0.009	0.005	0.046	0.125	0.008	0.178	0.001	0.001	0.001	0.001	2500		
4	13518	41339	0.085	0.740	0.232	0.012	0.005	0.060	0.099	0.007	0.188	0.001	0.001	0.001	0.001	2500		
	13518	41340	0.088	0.739	0.233	0.012	0.005	0.060	0.101	0.007	0.170	0.001	0.001	0.001	0.001	2500		

TEST SPECIMEN

MECHANICAL PROPERTIES

TENSION

TRACTION

CHARPY VNOTCH

TEMP.

SHEAR

No.	HEAT	Sample no.	Dimensions Inch x inch	Section Inch ²	Length Inch	Tensile Strength		Yield Strength		Elongation		1	2	3	Average
						Reqd.	Min.	Reqd.	Min.	Reqd.	Min.				
1	13498	41335	0.75 x 0.24	0.78	2.00	64280	35000	48912	22.00	41.10					
	13498	41331	0.75 x 0.23	0.18	2.00	63668	35000	48419	22.00	31.10					
2	13507	41343	0.78 x 0.23	0.18	2.00	62728	35000	48142	22.00	41.98					
3	13472	41343	0.78 x 0.23	0.18	2.00	62879	35000	47306	22.00	28.30					
4	13518	41339	0.78 x 0.22	0.17	2.00										

CONFIRM THAT THE MATERIAL HEREIN REPRESENTS THE TEST SPECIMENS DESCRIBED AND CONTAINED IN THE RECORDS OF THE COMPANY.

SIGNATURE

QUALITY DEPT. CHIEF
P.O. TIBERIU BROSOL

