



Control and Service
 B.D. BUKA VITEAZULI NR.65
 4700 ZILAU
 ROMANIA

SILCOTUB SA

MILL TEST CERTIFICATE
 ACCORDING TO EN 10293:1998

DATE: 14.02.2004 ORDER NO. PO 197090 No. 4 PAGE 1 OF 1

BUYER: DIFERENCO SA VIA BAGUTIN 9 1400 LUGANO SWITZERLAND
 REGISTRATION: ASTM A 309/309M; ASTM A 321/309; MATERIAL: GRADE B WAGON NO.: SWAP BODY NO.: TRUCK NO.:

No.	SIZE	HEAT NUMBER	NUMBER OF PIECES	NUMBER OF PIECES	LENGTH IN METERS	WEIGHT IN MT	ITEM	LOT
1	2 1/2" X 0.203 (73.00 X 5.16 mm)	33745	148	295	1737.360	14.97	4	
		33735	137					

DESCRIPTION: 199.274MT OF SEAMLESS STEEL TUBING ORDER CONFIRMATION 187090 (REFERENCE REF. NO. 147329)

PRODUCT ANALYSIS

No.	HEAT	Sample no.	CHEMICAL COMPOSITION %										OTHER TESTS		
			C	Mn	Si	P	S	Cr	Mo	Ni	Cu	V	Hardness	Hittoradic PSI	NICKEL STRUCTIVE TEST
1	HEAT	37558	0.183	0.473	0.281	0.014	0.007	0.117	0.114	0.114	0.012	0.185	0.005	2500	-
		33745	0.184	0.489	0.278	0.011	0.007	0.118	0.114	0.012	0.185	0.005	2800	-	
2		37555	0.173	0.472	0.276	0.017	0.008	0.119	0.100	0.009	0.184	0.008		-	
		33735	0.173	0.475	0.276	0.017	0.008	0.119	0.099	0.008	0.184	0.008		-	

No.	HEAT	Sample no.	DIMENSIONS			MECHANICAL PROPERTIES			TRACTION			QUALITY ANALYSIS			TEMP.	SHEAR
			Outer diam.	Wall thk.	Length	Yield strength	Tensile strength	Elongation	1	2	3	Average	%			
1	HEAT	37558	0.78	0.21	2.00	66000	68328	35000	51839	21.00	38.80	1	2	3		
		33735	0.78	0.21	2.00	66000	68870	35000	52237	21.00	38.80					

IDENTIFY THAT THE MATERIALS DESCRIBED ARE SUBJECT TO THE CONDITIONS OF CONTRACT AND THAT THE TEST RESULTS ARE SUBJECT TO THE RESERVES OF THE SUPPLIER.

SIGNATURE:

QUALITY DEPT. CHIEF: