SILCOTUB SA
Quality and Service
BD. MIRAI VITEAZU NO.03
4700 ZALAU
ROMANIA

MILL TEST CERTIFICATE

ACCORDING TO EN 10204/3.1.B

DATE	ORDER NO.	No.	PAGE
11.02.2002	PO 187030	2	1 OF 1

BUYER :	SPECIFICATION	MATERIAL	
DUFERCO SA VIA BAGUTTI 8 6900 LUGANO SWITZERLAND	ASTM A 106/1999; ASTM A 53/1999;	GRADE B	WAGGON NO. : SWAP BODY NO. : TRUCK NO. :

No.	SIZE	HEAT NUMBER	NUMBER OF PIECES	NUMBER OF PIECES	LENGTH IN METERS	WEIGHT IN MT	NUMBER OF BUNDLESS	ITEM	LOT
1	1 1/2" X 0.145 (48.30 x 3.68 mm)	33739	810	810	4937.760	19.987	13	2	

DESCRIPTION

199.714MT OF SEAMLESS STEEL TUBING ORDER CONFIRMATION 187030
(DUFERCO REF.NO. 187030)

PRODUCT ANALYSES

No.	HEAT	Sample no.	CHEMICAL COMPOSITION % C	Mn	Si	P	S	Cr	Ni	Mo	Cu	V	OTHER TESTS Flattening	Bending	Flaring	Hardness	Hidrostatic PSI	NONDESTRUCTIVE TEST
1	33739	37758	0.180	0.560	0.231	0.010	0.008	0.111	0.120	0.010	0.180	0.011	-	GOOD	-	-	2500	-
	33739	37759	0.180	0.561	0.231	0.010	0.008	0.111	0.121	0.010	0.180	0.010						
2	33739	37760	0.181	0.561	0.230	0.011	0.009	0.111	0.120	0.011	0.181	0.010	-	GOOD	-	-	2500	-
	33739	37761	0.181	0.561	0.230	0.010	0.009	0.111	0.121	0.011	0.181	0.010						

MECHANICAL PROPERTIES

TEST SPECIMEN No.	HEAT	Sample no.	Dimensions inch x inch	Section inch²	Length inch	TENSION TRACTION Tensile Strenght Required Min.	Max.	Result PSI	Yield Strenght Required Min.	Max.	Result PSI	Elongation Required Min.	Result %	CHARPY V-NOTCH 1	2	3	Average	TEMP. °F	SHEAR %
1	33739	37758	0.78 x 0.14	0.11	2.00	60000		73049	35000		50189	20.00	31.50						
2	33739	37760	0.78 x 0.14	0.11	2.00	60000		75631	35000		51258	20.00	27.00						

I CERTIFY THAT THE MATERIAL HEREIN DESCRIBED HAS BEEN MANUFACTURED WITH THE ORDERED SPECIFICATION AND THAT THE TEST INFORMATION IS CORRECT AND CONTAINED IN THE RECORDS OF THE COMPANY

SIGNATURE

QUALITY DEPT. CHIEF
Ing. TIBERIU ERDEI

S.C. SILCOTUB S.A. CONTROL TEHNIC Zalău - România