



SILCOTUB. S.A.

Quality and Service
S.D. MIHAI VITEAZU NO. 93,
4700 ZALAU, ROMANIA

MILL TEST CERTIFICATE
ACCORDING TO EN 10204/3.1.B.

DATE: 17.08.2001 CONTRACT: BCE 3472001/0A No. 9 PAGE 1 OF 1

BUYER: AVANTE, S.A. DE C.V.
JULIO VERNE NO. 42, CHAPULTEPEC
POLANCO, MEXICO, D.F. C.P.
11560
SPECIFICATION: ASTM A 106/1999; ASTM A 53/1999;
MATERIAL: GRADE B
WAGON NO.:
SWAP BODY NO.:
TRUCK NO.:

No.	SIZE	HEAT	NUMBER OF PIECES	TOTAL PIECES	LENGTH IN METER	QUANTITY IN METRIC TONS (MT)	NUMBER OF BUNDLES	ITEM	LOT
1	1 1/4" X 80SCH (42.20 x 4.85 mm)	99076	260	260	1560	6.973	3	9	

DESCRIPTION
299.100MT OF SEAMLESS CARBON STEEL PIPE A 53-GRB SRL
(DUFERCO REF. NO. 178970)

PRODUCT ANALYSES

No.	HEAT	Sample no.	ACTUAL RESULTS OF CHEMISTRY %										OTHER TESTS					
			C	Mn	P	S	SI	NI	Cr	Mo	Cu	V	Al	Flattening	Bending	Flaring	Hardness	Hydrostatic PSI
1	99076	25067	0.165	0.571	0.013	0.016	0.288	0.108	0.104	0.026	0.236	0.006					2500	
	99076	25068	0.167	0.577	0.013	0.016	0.289	0.108	0.105	0.026	0.234	0.006						

TEST SPECIMEN

No.	HEAT	Sample no.	Dimensions inch x inch	Section inch ²	Length inch	TENSILE		YIELD STRENGTH		ELONGATION		Dimensions inch x inch	Section inch ²	Temp. °C	REQUIRED		Result PSI
						Result PSI	Min.	Max.	Result PSI	Min.	Max.				Result %		
1	99076	25067	0.49 x 0.19	0.10	2.00	60000	72076	35000	51483	21.00	30.30				Min.	Max.	

MECHANICAL PROPERTIES

YIELD POINT ELEVATED TEMPERATURES

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

