



Quality Test Service  
 B.D. MIHAI VITEAZU NO. 99,  
 4700 ZALAU, ROMANIA

**SILCOTUB. S.A.**

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

DATE 17/08/2001	CONTRACT: DCE 347/2001/0A	NO. 2	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		WAGGON 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 40SCH (42.20 X 3.56 mm)	5347	733	733	4398	14.909	8	2	
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	5347	23945	0.225	0.530	0.006	0.027	0.267	0.031	0.038	0.005	0.065	0.006		GOOD	-	-	2500	-
		23946	0.224	0.526	0.006	0.027	0.268	0.031	0.038	0.005	0.064	0.006						
2	5347	23953	0.225	0.524	0.006	0.028	0.270	0.031	0.038	0.005	0.065	0.006		GOOD	-	-	2500	-
		23954	0.225	0.521	0.006	0.028	0.266	0.031	0.038	0.005	0.064	0.006						

**TEST SPECIMEN**

No.	HEAT	Sample no.	Dimensions Inch x Inch		Section Inch <sup>2</sup>	Length Inch	Tensile Strength		Yield Strength		Elongation		Dimensions Inch x Inch		Section Inch <sup>2</sup>	Temp. °C	YIELD POINT ELEVATED TEMPERATURES	
			Min.	Max.			Result PSI	Required	Result PSI	Required	Result %	Required	Min.	Max.			Result PSI	
1	5347	23945	0.75	0.15	0.12	2.00	60000	67484	35000	40045	19.50	31.70						
		23953	0.75	0.15	0.12	2.00	60000	65975	35000	41963	19.50	31.90						

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

