



SILCOTUB SA

Quality and Service  
B.D. BILAL VITEAZI NO.85  
4100 ZALAU  
ROMANIA

MILL TEST CERTIFICATE  
ACCORDING TO EN 102043.1.5

DATE: 11.02.2002 ORDER NO.: PO 183400

DELIVERED TO: DUFERCO SA  
BILA BACIUTII 8  
POIN LUGIARO  
SWITZERLAND

PERSCRIPTION: 3PESCICTION

ASTMA 1891986;ASTMA 591986;

MATERIAL: GRADE B

WAGON NO.:  
DRAW BODY NO.:  
TRUCK NO.:

MS 8  
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No.	SIZE	HEAT NUMBER	NUMBER OF PIECES	NUMBER OF PIECES	LENGTH IN METERS	WEIGHT IN TON (NET WEIGHT)	NUMBER OF ROLLS	ITEM	LOT
1	4" SCH 80 (114.30 x 8.56 mm)	99347	245	245	2214.874	49.372	50	8	
		99361	70	31					
		99315							

DESCRIPTION: 403.416 TM SEAMLESS PIPE A-SGR B SRL. OUTSIDE VARNISHED WITH BLACK LAQUER (DUFERCO REF. NO 18330)

PRODUCT ANALYSES

No.	HEAT	Sample no.	CHEMICAL COMPOSITION %										OTHER TESTS				
			C	Mn	Si	P	S	Cr	Mo	Ni	Cu	V	Furnacing	Swelling	Firing	Hardness HRC	NON DESTRUCTIVE TEST
1	99347	39246	0.150	0.480	0.294	0.019	0.019	0.192	0.122	0.018	0.262	0.001				2890	-
	99347	39247	0.150	0.478	0.296	0.019	0.019	0.190	0.123	0.018	0.265	0.001	GOOD	-	-	2890	-
2	99361	39250	0.178	0.481	0.290	0.020	0.018	0.192	0.122	0.018	0.262	0.001	GOOD	-	-	2890	-
	99361	39251	0.177	0.478	0.290	0.018	0.018	0.193	0.121	0.018	0.262	0.001	GOOD	-	-	2890	-
3	99315	39248	0.178	0.483	0.293	0.020	0.018	0.192	0.123	0.018	0.264	0.001	GOOD	-	-	2890	-
	99315	39249	0.177	0.487	0.292	0.020	0.016	0.191	0.123	0.018	0.282	0.001					

MECHANICAL PROPERTIES

No.	HEAT	Sample no.	Dimensions Each k (inch)	Section Inch <sup>2</sup>	Length Inch	Tensile Strength		Yield Strength		Elongation		CHARPY V-NOTCH				
						RA	RE	RA	RE	RA	RE	1	2	3	Average	
1	99347	39246	0.99 x 0.33	0.33	2.00	50000	71880	35000	50771	25.00	38.40	1	2	3	Y	N
2	99361	39250	1.00 x 0.32	0.33	2.00	50000	71281	35000	47428	25.00	35.00					
3	99315	39248	0.98 x 0.31	0.31	2.00	50000	71382	35000	50888	25.00	38.00					

IDENTIFY THE MATERIAL FROM THE SAMPLES WITH THE INVOICE SPECIFICATION AND THE TEST REPORTS. RECORD AND CONTAIN THE RECORD OF THE COMPANY.

SIGNATURE

QUALITY DEPT. CHIEF  
ING. THEODORE DEI

