

INSPECTION CERTIFICATE

EN 10204/3.1B



Commodity : STAINLESS STEEL BUTT-WELDING PIPE FITTING- Customer : SANTRADE LTD
90 ° LONG RADIUS ELBOW Shipper : TA CHEN STAINLESS PIPE CO., LTD.
 Specification : ASTM A403-1996/ASME SA403-1992 Destination : ROTTERDAM
ANSI B16.9-1993

TA CHEN STAINLESS PIPE CO., LTD.

Grade : WP304/304L-W , WP316/316L-W Customer's O/N : 16604 Certificate No : 1007081- 2/ 3

Supply Condition: HEAT TREATED AT 1040 AND WATER QUENCHED Factory O/N : SLO2AL663 Date : JULY. 21, 2000 INVOICE No : SLO2AB726

Item No.	Case No. (Crate No.)	Heat No.	Size (ELBOW)	Quantity (Pcs)	Weight (Kgs)	Chemical Composition in %							
						C	Si	Mn	P	S	Ni	Cr	Mo
007	H2 FBBLR-W316L-2-40S	111025A	X 2" SCH40 WP316/316L-W	500		.012	.43	1.10	.027	.005	10.15	16.23	2.09
008	H8 FBBLR-W316L-2-X1/2-10S	H5805	2 1/2" SCH10 WP316/316L-W	300		.021	.43	1.29	.027	.006	10.07	16.75	2.05
009	H5 FBBLR-W304L-2-1/2-10S	112299A	2 1/2" SCH10 WP304/304L-W	400		.022	.52	1.70	.026	.003	8.10	18.05	
010	H8 FBBLR-W316L-2-1/2-40S	111663	2 1/2" SCH40 WP316/316L-W	100		.020	.45	1.05	.026	.002	10.00	16.13	2.11
011	H8 FBBLR-W316L-3-40S	111665	3" SCH40 WP316/316L-W	200		.018	.42	1.04	.023	.005	10.00	16.00	2.05
012	H5 FBBLR-W304L-4-40S	209850A	4" SCH40 WP304/304L-W	100		.020	.40	1.73	.023	.009	8.14	18.25	
Total				1600									

Item No.	Tensile Test				Hardness Test HRB	Bend Test	SURFACE & DIMENSION	HYDROSTATIC TEST PSI	FLATTENING TEST	SOLUTION HEAT TREATMENT TEMP °F
	0.2% Yield Strength PSI	1% Yield Strength PSI	Tensile Strength PSI	Elongation %						
007	49200		82900	51.0	81.3					1960
008	44300		83700	52.0	81.0					1960
009	42200		85700	53.0	86.2					1960
010	35900		78200	55.0	80.4					1960
011	38400		81300	55.0	82.3					1960
012	43100		86000	51.0	84.6					1960

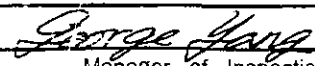
QUALITY ASSURANCE APPROVAL
 - 9. Aug. 2000
 SANTRADE LTD LUCERNE

Remarks
 PREMATRIAL : WELDED PIPE A312
 HARDNESS : NACE MR 0175-94 O.K.
 ASTM A282 PRACTICE E : GUARANTEED
 PMI TESTED : O.K.

 CARACTERISTIQUES GARANTIES :
 POUR Z3CN 18-10 ET Z3CND 17-13-03
 (A.M. DU 24.3.78)
 C ≤ 0.25%, RM ≤ 800 N/MM²
 S ≤ 0.05%, RM(A-2) ≥ 10500 N/MM²
 P ≤ 0.05%, A% SUR 5.65 VSD ≥ 16

We here by certify the above statement to be true and correct every detail

TA CHEN STAINLESS PIPE CO., LTD.


 Manager of Inspection Section