

# INSPECTION CERTIFICATE

DIN 50049/3.1B

Commodity : STAINLESS STEEL BUTT-WELDING PIPE FITTING- Customer : SANTRADE LTD  
90 ° LONG RADIUS ELBOW Shipper : TA CHEN STAINLESS PIPE CO., LTD.  
 Specification : ASTM A403-1991 Destination : ROTTERDAM  
ANSI B16.9-1993  
 Grade : WP304/304L-W , WP316/316L-W Customer's O/N : 13767 Certificate No : 9702077- 1/ 4

TA CHEN STAINLESS PIPE CO., LTD  
 NO. 125 HSIN-TIEN 2ND ST, HSIN-TIEN  
 JENG-TEH, TAINAN TAIWAN, R.O.C.

TEL : (06)2793254 · 2701756-8

FAX : (06)2701382 · 2791154

Supply Condition: \_\_\_\_\_ Factory O/N : SL026L880 Date : FEB.27,1997 INVOICE No: SL027B631

No.	Case No. (Crate No.)	Heat No.	Size ( ELBOW )	Quantity (Pcs)	Weight (Kgs)	Chemical Composition in %								
						C	Si	Mn	P	S	Ni	Cr	Mo	
001	A12 FBBLR-W304L-1/2-105	54866A	½ SCH10 WP304/304L-W	1000		.023	.48	1.50	.027	.002	9.30	18.20		
002	A1 FBBLR-W316L-1-405	60510	1" SCH40 WP316/316L-W	300		.017	.54	1.50	.032	.002	11.10	16.90	2.11	
003	A12 FBBLR-W304L-1-1/4-105	646687B	1½ SCH10 WP304/304L-W	500		.021	.73	.94	.030	.005	9.25	18.24		
004	A1 FBBLR-W316L-1-1/2-105	C2085B	1½ SCH10 WP316/316L-W	500		.013	.37	.68	.026	.002	11.20	17.30	2.03	
005	A1 FBBLR-W316L-1-1/2-405	61164B	* 1½ SCH40 WP316/316L-W	300		.020	.54	1.48	.035	.001	11.10	16.80	2.09	
006	A22 FBBLR-W304L-1-1/2-405	D08341	1½ SCH40 WP304/304L-W	500		.026	.55	1.56	.031	.005	9.67	18.06		
Total				3100										

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 %						
001	36500		86000	53.0	81.0		OK	2500	OK	1960
002	38300		82000	53.0	81.0		OK	2500	OK	1960
003	40000		88000	52.0	82.0		OK	2000	OK	1960
004	40200		81200	53.0	81.2		OK	1700	OK	1960
005	39200		83200	51.0	81.3		OK	2300	OK	1960
006	38800		87200	52.0	82.0		OK	2300	OK	1960

Remarks

PREMATERIAL : WELDED PIPE A312  
 HARDNESS : NACE MR 0175-94 O.K.  
 ASTM A262 PRACTICE E : GUARANTEED  
 PMI TESTED

QUALITY ASSURANCE APPROVAL

10. März 1997

SANTRADE LTD LUCERNE

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

TA CHEN STAINLESS PIPE CO., LTD.

*George Yang*  
 Manager of Inspection Section