

# 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- 3/ 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

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	
013	A20 A12 A21 FBBLR-W304L-3-10S	N624055	* 3" SCH10 WP304/304L-W	750		.027	.40	1.35	.032	.008	10.20	18.15		
014	A9 A12 A21 FBBLR-W316L-3-40S	861922	3" SCH40 WP316/316L-W	200		.019	.54	1.18	.034	.001	11.08	17.68	2.08	
015	A1 A12 A21 FBBLR-W304L-3-40S	102249	3" SCH40 WP304/304L-W	100		.024	.51	1.63	.025	.013	9.17	18.41		
016	A5 A12 A21 A6 A7 FBBLR-W316L-4-10S	62498	4" SCH10 WP316/316L-W	500		.022	.57	1.46	.030	.002	11.10	16.90	2.06	
017	A7 A12 A21 A6 A7 A13 FBBLR-W304L-4-10S	646514H	4" SCH10 WP304/304L-W	300		.022	.63	1.01	.027	.004	9.37	18.31		
018	A9 A12 A21 A6 A7 A13 FBBLR-W316L-4-40S	020564	4" SCH40 WP316/316L-W	100		.030	.51	1.27	.023	.001	11.12	17.70	2.04	
<b>Total</b>				<b>1950</b>										

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 %						
013	36900		83200	50.0	78.0		OK	1000	OK	1960
014	43800		86600	52.0	81.0		OK	1900	OK	1960
015	38200		82000	57.0	81.1		OK	1900	OK	1960
016	39200		83000	52.0	81.3		OK	800	OK	1960
017	40000		87000	52.0	82.0		OK	800	OK	1960
018	41500		84700	54.0	81.0		OK	1600	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