

INSPECTION CERTIFICATE

DIN 50049/3.1B

Commodity : STAINLESS STEEL BUTT-WELDING PIPE FITTING Customer : SANTRADE LTD.
STRAIGHT TEE Shipper : TA CHEN STAINLESS PIPE CO., LTD.
 Specification : ASTM A403-1986 Destination : ROTTERDAM
ANSI B16.9-1983
 Grade : WP304/304L-W, WP316/316L-W Customer's O/N : 15438 Certificate No : 9901065-2/3

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: HEATTREATED AT 1040° AND WATER QUENCHED Factory O/N : SL028L862 Date : JAN.25,1999 INVOICE No : SL0286610

Item No.	Case No. (Crate No.)	Heat No.	Size (TEE)	Quantity (Pcs)	Weight (Kgs)	Chemical Composition in %								
						C	Si	Mn	P	S	Ni	Cr	Mo	
007	D18 FBT-W304L-1-1/2-40S	201957	1 1/2" SCH40 WP304/304L-W	100		.018	.47	1.63	.032	.005	8.20	18.21		
008	D19 FBT-W316L-2-40S	105754A	2" SCH40 WP316/316L-W	100		.015	.56	1.59	.029	.007	10.28	16.12	2.11	
009	D4 FBT-W316L-2-1/2-10S	H1706	2 1/2" SCH10 WP316/316L-W	100		.021	.43	1.28	.028	.002	11.19	17.28	2.07	
010	D13 FBT-W316L-2-1/2-40S	E735032	2 1/2" SCH40 WP316/316L-W	20		.024	.43	1.30	.025	.010	11.03	17.00	2.04	
011	D15 FBT-W316L-4-10S	H1703A	4" SCH10 WP316/316L-W	100		.028	.41	1.35	.028	.005	11.16	17.39	2.09	
012	D18 FBT-W304L-5-40S	870832B	5" SCH40 WP304/304L-W	10		.016	.41	1.44	.028	.001	9.11	18.65		
Total				430										

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	37900		85500	57.0	80.5					1960
008	41400		78900	58.0	77.9					1960
009	43100		88200	48.5	80.7					1960
010	41700		84800	54.0	78.5					1960
011	43100		86000	47.5	81.2					1960
012	39800		85600	64.0	79.0					1960

Remarks

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

QUALITY ASSURANCE APPROVAL
 - 5, Feb. 1999
 SANTRADE LTD LUCERNE

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%, AX SUR 5.65 VSO ≥ 16

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