



**ZHEJIANG STELLAR PIPE INDUSTRY CO.,LTD**  
 INDUSTRIAL PARK,XIAOZHI,QINGTIAN,323903,ZHEJIANG CHINA  
**MILL TEST CERTIFICATES to EN 10204/3.1 PED 97/23**

PED Certificate no.:331/2007/MUC

Customer :	ALLIED FITTING CANADA	Customer Order :	112612ASQ
Contract No. :	STC12S1127-01	Cert No. :	ST130105-30
Specification :	ASTM A312/ASME SA312	Delivery Condition :	Solution Treated
Steel Grade :	TP316/316L	Appearance :	Pickling
Goods :	STAINLESS STEEL SEAMLESS TUBES AND PIPES		

Heat No.		Chemical Composition (%)								
		C	Si	Mn	P	S	Cr	Ni	Mo	Ti
Spec.	Min.						16.00	11.00	2.00	
	Max.	0.035	1.00	2.00	0.045	0.030	18.00	14.00	3.00	
Iadle Analysis	J1211-1404	0.018	0.39	0.85	0.038	0.001	16.77	11.05	2.07	
Product Analysis		0.020	0.42	0.83	0.045	0.002	16.66	11.15	2.10	
Batch No.	Size	Quantity						Visual Examination		
C121127044	114.3*3.05 4"*SCH10S*17-24'FT	84 PCS		5023 KGS		573.86 M 1882.73 FT		OK		

Test No.		Mechanical Properties (Acc to ASTM A370)								
		Tensile Strength	Proof Strength	Elongation	Flattening Test	Ring Tensile Test	Drift Expanding Test	Hardness Test	Impact Test	Grain Size No.
		MPa	MPa	A(%)				HRB		E112
Spec.	Min.	515	205	35				90		
	Max.									
	L34	555	260	59	GOOD	/	/	76.9	/	5.0

Leak Tightness Test		Non-destructive Testing		Intergranular Corrosion Test	
Hydrostatic Test Acc to ASTM A999	Eddy Current Test Acc to ASTM E426	Ultrasonic Test Acc to ASTM E213		Acc to ASTM A262-E	
/	GOOD	/		GOOD	

**Additional Remarks:**

1. Country of Origin: China	2. 100% PMI	3. No weld repair
4. Comply with NACE MR 0103 / NACE MR0175/ISO 15156 latest edition	5. Free of Mercury	6. cold finished
7. Heat treatment: Solution annealing done at .1050 °C (Min.), the material was cooled to below 800°F in 3 minutes or less.		

We hereby certify that the material described above has been tested and complies with the terms of the Contract & the specification, and we confirm M.I. has been done.

11/01/2013  
Data

Quality Technology Director