

SHANGHAI BAOLUO STAINLESS STEEL TUBE PLANT

MILL TEST CERTIFICATE (ISO 9001: 2000 CERTIFIED)

CUSTOMER: ARCUS NEDERLAND B.V. P. O. NO.: IOH01472 SPECIFICATION ASTM A/SME A/SA 213 & A/SA269 STEEL GRADE: 316/316L DESCRIPTION: STAINLESS STEEL SEAMLESS TUBE	CERT. NO.: YS080410-2a L/C NUMBER: FONL06M005266 DELIVERY CONDITION: COLD DRAWN, ANNEALED, PICKLED, PASSIVATED, PLAIN END APPEARANCE: SOLUTION TREATED MELTING PROCESS: E. A. F. A.O.D. HOT ROLLED(BILLET)
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CHEMICAL COMPOSITION (wt. %)																
Heat No.	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	N	Ti	AL	W	V	B	Co
Spec.	Min.					10	16.0	2.0								
	Max.	0.035	2.0	0.040	0.030	0.75	14	18.0	3.0							
Y71607	0.021	0.91	0.033	0.002	0.75	10.03	16.79	2.05								

Lot No.	SIZE			QUANTITY			TENSILE PROPERTIES				Hardness HRB	Flattening Test	Flaring Test	Grain Size	Hydrostatic Test	I.C. Test	Nondestructive Examination	
	O.D	W.T	LENGTH	PCS	ft	m	Y.S.psi(MPa)	Y.S.psi(MPa)	T.S.psi(MPa)	EL.							E.T.	U.T.
	(")/(mm)	CH/(mm)	(m)				0.2%Min.205	1.0%	Min. 515	Min.35%	Max.80							
Y71607-6	16	1.5	6	67			230		525	60	76	OK	OK		OK	OK	OK	OK
Y71607-7	20	2	6	250			228		530	57	75	OK	OK		OK	OK	OK	OK
Y71607-8	22	1.5	6	167			225		530	58	74	OK	OK		OK	OK	OK	OK
Y71607-9	22	2	6	83			230		535	61	76	OK	OK		OK	OK	OK	OK
Y71607-10	28	2	6	117			230		535	59	75	OK	OK		OK	OK	OK	OK
Y71607-11	30	3	6	100			233		535	60	72	OK	OK		OK	OK	OK	OK

REMARK:
 COUNTRY OF ORIGIN OF RAW MATERIAL: CHINA
 COUNTRY OF ORIGIN OF MELT SOURCE: CHINA
 CERTIFY TO ASTM A/SA213 A/SA269
 PMI+IC ASTM A-262 PRACTICE E, NACE MR-0175.
 Cert. To EN 10204 3.1
 HEAT TREATMENT: 1050°C FOR 5MIN. (W. Q.)
 MATERIAL FREE FROM MERCURY AND RADIATION CONTAMINATION
 NO WELD REPAIR WAS PERFORMED
 MEASUREMENTS & SURFACE: GOOD
 Marking: logo baoluo astm a213/269 TP316L smls XX*XX*6 he

1 WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED ABOVE HAS BEEN TESTED AND TEST RESULTS ARE IN COMPLIANCE WITH THE TERMS OF THE PURCHASE ORDER OR CONTRACT.

2 THE CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF THE COMPANY.



Chen jizhang

REVIEW



Lu Hua

QUALITY TECHNOLOGY DIRECTOR

APRIL 10, 2008 SHANGHAI, CHINA