

SHANGHAI BAOLUO STAINLESS STEEL TUBE PLANT

EN10204 3.1 CERTIFICATE

CUSTOMER: ARCUS NEDERLAND B.V. P. O. NO.: IOK01594RH SPECIFICATION: ASTM/ASME A/SA 213AW& ASTM A269 STEEL GRADE: TP316/316L DESCRIPTION: STAINLESS STEEL SEAMLESS TUBE	CERT. NO.: YS100921-3a DELIVERY CONDITION: ANNEALED,PICKLED 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.					10.0	16.0	2.0								
	Max.	0.035	2.0	0.045	0.030	1.0	15.0	18.0	3.0							
Y100075	0.025	1.18	0.04	0.006	0.38	10.04	16.72	2.07								

Lot No.	SIZE			QUANTITY			TENSILE PROPERTIES				Hardness HRB	Flattening Test	Flaring Test	Grain Size	Hydrostatic Test	I.C. Test	Nodestructive 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	mm	m				0.2%Min.205	1.0% Min	Min.515	Min.35%	MAX.80									
Y100075-12	18	1.5	6	155		930			270			555	55	74	OK	OK		OK	OK	OK
Y100075-13	18	2	6	23		138			290			585	50	74	OK	OK		OK	OK	OK
Y100075-14	20	2	6	55		330			320			580	57.5	74	OK	OK		OK	OK	OK
Y100075-15	22	1.5	6	36		216			290			685	50	74	OK	OK		OK	OK	OK
Y100075-16	22	2	6	56		336			300			670	50	74	OK	OK		OK	OK	OK

REMARK:
 CERTIFY TO ASTM/ASME A/SA 213AW& ASTM A269
 ELONGATION IN 50MM LONGITUDINAL
 IC ASTM A-262 PRACTICE E,NACE MR0175-MR0103
 PMI TEST:100% GOOD
 HEAT TREATMENT: 1050°C FOR 5MIN. (W. Q.)
 MATERIAL FREE FROM MERCURY AND RADIATION CONTAMINATION
 NO WELD REPAIR WAS PERFORMED
 MEASUREMENTS & SURFACE: GOOD
 100% EDDY CURRENT TEST AS PER ASTM E426
 100%HYDROSTATIC TEST AS PER A1016/A1016M
 Marking:BAOLUO SMLS A/SA 213AW/269 & EN 10216-5 EN ISO1127 D4/T3
 1.4401-316/1.4404-316L XXMM*XXMM*6000MM Heat No.Y100075
 MATERIAL ACC. TO ASME SECTION II PART A,2007 EDIT.
 Cert. To EN 10204 3.1,IN ACCORDANCE WITH PED ANNEX 1,PARAGRAPH 4.3

- 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 MILL GOT APPROVAL OF PED 97/23/EC CERTIFICATE NO. 01 202 CHI/Q-09 0346
- 3 THE CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF THE COMPANY.


 REVIEW


 Lu hua
 QUALITY TECHNOLOGY DIRECTOR
 SEP.21,2010 SHANGHAI, CHINA