Order : SNL-01417427
Index : 180404B2200
Ref. :
Artikel: 4" S 10S N ELB LR 45 A403 316(L)*

Levering: 0085461752/000270
Hoeveelh: 2 ST

Charge: 161201V10

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SUPERINOX
TUBES & PIPES & FITTINGS

TÜVRheinland
ISO 9001:2008 CERT NO: 01 100 106091/01
DIRECTIVE 2014/68/EU CERT NO:01 202 CHN/Q-130513
AD 2000- MERKBLATT W0 : 01 202 CHN/Q-130513

INSPECTION CERTIFICATE

SUPERINOX MAX FITTINGS INDUSTRY SDN. BHD. (406083-T)
No. 1564, MK 12, Jalan Nafiri,
Valdor Industrial Estate,
14200 Sungai Jawi, Penang, Malaysia.
Tel. : +604-5825511 Fax. : +604-5828611
E-mail : enquiry@superinox.com.my
Website : www.superinoxtubes.com

EN 10204/3.1

Client								Certificate No	20171111 -27		
Contract No.		SC/SP-013371		PO No.	1469			Delivery Conditions	Solution Annealed, pickled and passivated		
Product		STAINLESS STEEL COLD FORMED BUTT WELD FITTINGS						Specification	ASTM A403-16/ ASME SA403-15 ASME B16.9-2012		
Item	Quantity	Size		Description				Grade	Heat No.	Heat treatment	Quenching
144	3	6"X4"	SCH10S	Reducing Tees				WP316/316L-S	161201V10	1050°C	RWQ
145	5	6"X4"	SCH40S	Reducing Tees				WP316/316L-S	151225V02	1050°C	RWQ
146	5	8"X6"	SCH40S	Reducing Tees				WP316/316L-S	170114S06	1050°C	RWQ
147	30	4"	SCH10S	45 Degree Elbows Long Radius				WP316/316L-S	161201V10	1050°C	RWQ
151	100	1"	SCH10S	Equal Tees				WP316/316L-S	151106S01	1050°C	RWQ

Chemical Composition (%)

Heat No.	C	Mn	P	S	Si	Cr	Ni	Mo				
161201V10	0.022	0.90	0.029	0.002	0.32	16.35	10.05	2.05				
151225V02	0.019	0.96	0.030	0.005	0.41	16.28	10.03	2.04				
170114S06	0.017	0.94	0.037	0.001	0.43	16.20	10.04	2.03				
161201V10	0.022	0.90	0.029	0.002	0.32	16.35	10.05	2.05				
151106S01	0.015	0.93	0.035	0.002	0.42	16.24	10.03	2.01				

Mechanical Properties					NACE MR0175	IC Test ASTM A262E	Impact Test	Non-destructive Test	PMI	Visual	Dimensional
Heat No.	TS(MPa)	YS Rp0.2%(MPa)	EL(%)	Hardness				RT			
161201V10	610	272	61	HRB≤90	OK	OK	N/A	N/A	OK	OK	OK
151225V02	560	238	54	HRB≤90	OK	OK	N/A	N/A	OK	OK	OK
170114S06	580	237	58	HRB≤90	OK	OK	N/A	N/A	OK	OK	OK
161201V10	576	268	57	HRB≤90	OK	OK	N/A	N/A	OK	OK	OK
151106S01	580	249	58	HRB≤90	OK	OK	N/A	N/A	OK	OK	OK

MARKINGS:SUPERINOX ASTM/ASME A/SA403 GRADE NPS SCH HEAT NO. SONG MALAYSIA

1. Materials have been manufactured in complete accordance with the purchasers order
2. Free of weld repair as per ASTM A 960 Supplementary Requirement S66
3. Free of mercury
4. Free of radiation
5. 100% PMI test
6. Complies with NACE MR0103, NACE MR0175, ISO 15156
7. we confirm that all materials are supplied free from mercury and radiation contamination as per asme SECTION II PART A2010.

Date: 11-Nov-17

SUPERINOX MAX FITTINGS INDUSTRY SDN. BHD. QA Depart

APPROVED
date 03-01-2019
signature
RAB FABRIC

APPROVED
date 03-01-2019
signature
RAB FABRIC

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ZHEJIANG STELLAR PIPE INDUSTRY CO.,LTD

XIAOZHI INDUSTRIAL PARK,WENXI TOWN,QINGTIAN COUNTY,LISHUI CITY,ZHEJIANG,CHINA,323900

MILL TEST CERTIFICATES to EN 10204/3.1 PED 97/23

PED Certificate no.:331/2007/MUC

Customer :	SUPERINOX MAX FITTINGS INDUSTRY SDN. BHD.		
Contract No.	GJDB201702-7-1-3	Order No. :	
Specification	ASTM A312-2015	Cert No.	ST170125-06
Steel Grade	TP316L-S	Delivery Condition	Solution Treated
Goods	STAINLESS STEEL SEAMLESS PIPE	Appearance	Pickling

Heat No.		Chemical Composition (%)									
		C	Si	Mn	P	S	Cr	Ni	Mo	Ti	
Spec.	Min.						16.00	10.00	2.00		
	Max.	0.030	1.00	2.00	0.045	0.030	18.00	14.00	3.00		
Ladle Analysis	161201V0	0.022	0.32	0.90	0.029	0.002	16.35	10.05	2.05		
Product Analysis		0.025	0.34	0.93	0.026	0.004	16.37	10.09	2.08		

Batch No.	Size	Quantity			Visual Examination
2T161226-05	114.3*3.05	26 PCS	1370 KGS	/	OK

Test No.		Mechanical Properties								
		Tensile Strength MPa	Proof Strength MPa	Elongation	Flattening Test	Ring Tensile Test	Drift Expanding Test	Ring Expanding Test	Hardness Test HRB	Grain Size No. E112
			Rp0.2	A(%)						
Spec.	Min.	485	170	35						
	Max								80	
L4		576	268	57	GOOD	/	/	/	73	/

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.Solution Temperature: 1050℃ Hold 30minutes Rapid Water Cooling. 5.Hardness Acc. to NACE MR 0103 / NACE MR0175

6.Melting process by EAF+AOD refining

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

Mar/14/2017

Date

浙江泰明钢管有限公司
ZHEJIANG STELLAR PIPE INDUSTRY CO., LTD.
质量检验专用章
SPECIAL QUALITY INSPECTION STAMP

APPROVED

date 03-01-2019

FRAIB signature

FABRAP