

Order : SNL-01417427

Index : 181122B3600

Ref. :

Artikel: 4" S 10S N A312 (C)316L* EHL

Levering: 0085461744/000040

Hoeveel: 92,070 M

Charge: ZJGF1801-136

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APPROVED

date 03-01-2019

signature

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T.L.P. spa

Copia conforme all'originale

DDT: 2018 BC 4085 200

DATE: 20/11/18

Tubo S/S ASTM A 312
316/316L 114,30 x 3,05
Client Order PO 5207197
Your Code:
Your Item:
Your Job:

HEAT: ZJGF1801-1

OUR ORDER: 2018 SC 31717 / 2100

QTY: NR 10,00

MT 66,80

KG

568,00



http://www.ttube.kr

T - TUBE CO.,LTD.

OFFICE : 46,Meumeandan 4-ro, Gangeo-gu, Busan, Korea

INSPECTION CERTIFICATES to EN 10204/3.1 PED 2014/68/EU

PED Certificate no. : 07-202-9160-WZ-2054/15

Customer : T.L.P. S.P.A.

PO NO. : PO207795

Specification : EN 10218-5 TC1/ASTM A312 ED2016a/ASME SA 312-ED2015

Cert No. : TT11424

Steel Grade : 1.4401/1.4404/TP316/316L

Delivery Condition : Solution Treated

Goods : SEAMLESS STAINLESS STEEL PIPE

Appearance : Pickling

Heat No.		Chemical Composition (%)									
		C	Si	Mn	P	S	Cr	Ni	Mo	Ti	N
Spec.	Min.						16.50	10.00	2.00		
	Max.	0.030	1.00	2.00	0.040	0.015	18.00	13.00	2.50		0.11
Labile Analysis	ZJGF1801-136	0.013	0.38	0.80	0.039	0.002	18.61	10.06	2.06	/	0.06
Product Analysis		0.015	0.41	0.82	0.037	0.002	16.68	10.07	2.05	/	0.06
Batch No.		Size		Quantity						Visual Examination	
B1806-1172		114.3*3.05*6000-7000		96 PCS		5584 KGS		617.83 M		OK	
Test No.	Mechanical Properties (Acc to ASTM A370)										
	Tensile Test (ISO 6892-1)					Flattening Test	Ring Tensile Test	Drift Expanding Test	Ring Expanding Test	Impact Test	Hardness Test
	Tensile	Proof Strength		Elongation							
		Rp0.2	Rp1.0	A(%)							
Spec.	Min.	515	205	230	40						
	Max.	680									90
L1		605	240	305	57	GOOD	/	GOOD	/	/	75
Leak Tightness Test				Non-destructive Testing		Intergranular Corrosion Test					
Hydrostatic Test		Eddy Current Test		Ultrasonic Test							
Acc to ASTM A999		Acc to ASTM E426		Acc to ASTM E213		Acc to ASTM A262-E					
/		GOOD		/		GOOD					

Additional Remarks:

1. Country of Origin: South Korea

2. 100% PMI

3. No weld repair

4. Heat Treatment: Solution annealing done at 1050 °C (Min.) Holding time 6 minutes then cooled by water

5. Steel marking process: EAF+VOD

6. Comply with NACE MR0103/ NACE MR 01.75 latest edition

7. AD2000 Markblatt W0 and PED 2014/68/EU Annex I sec.4.3

8. Material is free from radioactive contamination

9. As per ASTM/ASME A999/SA 999-11' section II PART A EDITION 2015

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.I has been done.

Sep/10/2018

Date

Quality Technology Director

APPROVED

date 03-01-2019

signature

T.L.P. spa
Copia conforme all'originale

DDT: 2018 BC 4085 100
DATE: 20/11/18

Tubo S/S ASTM A 312
316/316L 114,30 x 3,05
Client Order PO 5207197
Your Code:
Your Item:
Your Job:

HEAT: ZJGF1801-1 OUR ORDER: 2018 SC 31717 / 300
QTY: NR 24,00 MT 164,57 KG 1313,00



http://www.tube.kr

T - TUBE CO.,LTD. Azienda: TLP Pozzo d'Adda

OFFICE : 46, Meumсандан 4-ro, Gangseo-gu, Busan, Korea

INSPECTION CERTIFICATES to EN 10204/3.1 PED 2014/68/EU

PED Certificate no. : 07-202-9160-WZ-2054/15

Customer : T.L.P. S.P.A.
PO NO. : PO207796
Specification : EN 10216-5 TC1/ASTM A312 ED2016a/ASME SA 312-ED2016 Cert No. : TT11424
Steel Grade : 1.4401/1.4404/TP316/316L Delivery Condition : Solution Treated
Goods : SEAMLESS STAINLESS STEEL PIPE Appearance : Pickling

Heat No.		Chemical Composition (%)									
		C	Si	Mn	P	S	Cr	Ni	Mo	Ti	N
Spec.	Min.						16.50	10.00	2.00		
	Max.	0.030	1.00	2.00	0.040	0.015	18.00	13.00	2.50		0.11
Initial Analysis	ZJGF1801-136	0.013	0.38	0.80	0.039	0.002	16.61	10.06	2.08	/	0.06
Product Analysis		0.015	0.41	0.82	0.037	0.002	16.58	10.07	2.05	/	0.06
Batch No.	Size		Quantity							Visual Examination	
B1806-1172	114.3*3.05*6000-7000		96 PCS		5584 KGS		617.83 M		OK		
Test No.	Mechanical Properties (Acc to ASTM A370)										
	Tensile Test (ISO 6892-1)					Flattening Test	Ring Tensile Test	Drift Expanding Test	Ring Expanding Test	Impact Test	Hardness Test
	Tensile	Proof Strength		Elongation							
		Rp0.2	Rp1.0	A(%)							
Spec.	Min.	515	205	230	40						
	Max.	680									90
L1		605	240	305	57	GOOD	/	GOOD	/	/	75
Leak Tightness Test			Non-destructive Testing			Intergranular Corrosion Test					
Hydrostatic Test		Eddy Current Test		Ultrasonic Test							
Acc to ASTM A999		Acc to ASTM E426		Acc to ASTM E213		Acc to ASTM A262-E					
/		GOOD		/		GOOD					

Additional Remarks:

- Country of Origin: South Korea
- 2.100% PMI
- No weld repair
- Heat Treatment: Solution annealing done at 1050 °C (Min.) Holding time 5 minutes then cooled by water
- Steel marking process: EAF+VOD
6. Comply with NACE MR0103/ NACE MR 01.76 latest edict
- AD2000 Markblatt W0 and PED 2014/68/EU Annex I sec.4.3
8. Material is free from radioactive contamination
- As per ASTM/ASME A999/SA 999-11' section II PART A EDITION 2015

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

Sep/10/2018

Date

Quality Technology Director

APPROVED

date 03-01-2019

FABRAB

signature