

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

RAIB

signature

014

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
Icdle Analysis		0.013	0.38	0.80	0.039	0.002	18.61	10.08	2.06	/	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					
B1808-1172		114.3*3.05*6000-7000		96 PCS		5584 KGS		617.83 M		OK	
Mechanical Properties (Acc to ASTM A370)											
Tensile Test (ISO 6892-1)											
Test No.	Tensile	Proof Strength		Elongation	Flattening Test	Ring Tensile Test	Drift Expanding Test	Ring Expanding Test	Impact Test	Hardness Test	HRB
		Rp0.2	Rp1.0								
Spec.	Min.	515	205	230	40						90
	Max.	680									
L1		605	240	305	57	GOOD	/	GOOD	/	/	75
Leak Tightness Test											
Hydrostatic Test		Eddy Current Test		Non-destructive Testing		Intergranular Corrosion 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 1060 °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

RAIB

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



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T - TUBE CO.,LTD.

Razienda: 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	2.06	/	0.06	
Product Analysis		0.015	0.41	0.82	0.037	0.002	16.56	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. Max.	515 680	205	230	40							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
- Comply with NACE MR0103/ NACE MR 01.76 latest editt
- AD2000 Markblatt W0 and PED 2014/68/EU Annex I sec.4.3
- 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 a P.M.I has been done.

Sep/10/2018

Date

Quality Technology Director

APPROVED

date 03-01-2019

FAB

signature