



Management System
ISO 9001:2015
www.tuv.com
ID: 919522311

Certificado de Calidad

IT020305 rev.01

N° NN-20072

Industrias Nelson
Av. Rivadavia 12140 – Ciudadela – Buenos Aires
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	Descripción	Código	Cantidad	Certificado
	NIPLE 1" NPT M X 100mm	11SC16X4		CS-032
	Componentes	Material	Certificado	
	CAÑO ASTM A312 DE 33.3mm	AISI316L	CS-032	

Protocolo de ensayo :

Tipo	Presión de trabajo	Estado	Presión de prueba	Estado	Tiempo
Hidráulico	1	Ok	8.000psi	Ok	60 segundos

Dimensional:

Se controlaron las roscas con el calibre correspondientes dando como resultado satisfactorio. Se controlaron también la rugosidad superficial y las dimensiones generales dando un resultado satisfactorio.

Visual/Funcional:

Se controlaron la porosidad, rebabas, ensamblado, terminación superficial y su función mecánica dando como resultado: satisfactorio

Observaciones :

Se certifica que las piezas descritas fueron construidas de acuerdo a lo indicado en nuestros estándares internos, que se cumplen de acuerdo a un sistema de Gestión de Calidad certificado ISO 9001:2015, manteniendo en archivo los certificados correspondientes a cada material.

S.A.

Firma: **INDUSTRIAS NELSON**



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BAOFENG STEEL GROUP CO., LTD

MILL TEST CERTIFICATE

EN 10204 3.1 ISO9001+PED2014/68/EU

PO Number:5000007884

Client: FAMIQ SRL

L/C NO.:CDI001250558000

L/C DATE:211015

Product: STAINLESS STEEL SEAMLESS PIPES

Certificate No:20211222-2

Issuing date : Dec 22nd.2021

Item	Heat No	Grade	Size (mm)	Pieces PCS	Quantity (m)	Net Weight (kg)	CHEMICAL COMPOSITION %										Delivery condition	Executive standards
							C	Si	Mn	P	S	Cr	Ni	Mo	Ti			
1	N210917AS11	316L	26.6*5.54*6000	1	6	17	0.014	0.38	0.97	0.034	0.001	16.30	10.02	2.03	/	Annealed & pickled	ASTMA312-17	
2	N210826AS08	304L	33.4*2.77*6000	144	864	1743	0.022	0.33	1.31	0.037	0.003	18.17	8.06	/	/	Annealed & pickled	ASTMA312-17	
3	N210826AS08	304L	33.4*3.38*6000	68	408	988	0.022	0.33	1.31	0.037	0.003	18.17	8.06	/	/	Annealed & pickled	ASTMA312-17	
4	N210917AS11	316L	33.4*4.55*6000	4	24	77	0.014	0.38	0.97	0.034	0.001	16.30	10.02	2.03	/	Annealed & pickled	ASTMA312-17	
5	N210826AS08	304L	48.3*2.77*6000	57	342	1102	0.022	0.33	1.31	0.037	0.003	18.17	8.06	/	/	Annealed & pickled	ASTMA312-17	
6	N210917AS11	316L	48.3*2.77*6000	15	90	280	0.014	0.38	0.97	0.034	0.001	16.30	10.02	2.03	/	Annealed & pickled	ASTMA312-17	
7	N210826AS08	304L	48.3*3.68*6000	9	54	220	0.022	0.33	1.31	0.037	0.003	18.17	8.06	/	/	Annealed & pickled	ASTMA312-17	
8	N210917AS11	316L	48.3*3.68*6000	23	138	544	0.014	0.38	0.97	0.034	0.001	16.30	10.02	2.03	/	Annealed & pickled	ASTMA312-17	
9	N210826AS08	304L	48.3*5.08*6000	1	6	33	0.022	0.33	1.31	0.037	0.003	18.17	8.06	/	/	Annealed & pickled	ASTMA312-17	
10	N210826AS08	304L	60.3*2.77*6000	65	390	1553	0.022	0.33	1.31	0.037	0.003	18.17	8.06	/	/	Annealed & pickled	ASTMA312-17	

Dimension tolerance quality

OK

Mechanical property

Process property

Item	Yield point	Tensile Strength	Ductile	Hardnessrate	Ultrasonic Test	Eddy-current Testing	Hydrostatic Test	Flaring Test	Flattening Test	Intergranular Corrosion Test
	σs (Mpa) ≥ 170	σs (Mpa) ≥ 485	δ % Longi. ≥ 35	HRB ≤ 90	ASTM E213	ASTM E426	ASTM A999	A999/A370M	A999/A999M	ASTM A 262 Practice E
1	322	582	53	78	/	/	Satisfactory	GOOD	GOOD	GOOD
2	322	594	56	77	/	/	Satisfactory	GOOD	GOOD	GOOD
3	293	582	55	78	/	/	Satisfactory	GOOD	GOOD	GOOD
4	310	588	57	76	/	/	Satisfactory	GOOD	GOOD	GOOD
5	288	576	56	74	/	/	Satisfactory	GOOD	GOOD	GOOD
6	293	576	58	79	/	/	Satisfactory	GOOD	GOOD	GOOD
7	276	612	56	80	/	/	Satisfactory	GOOD	GOOD	GOOD
8	283	592	57	76	/	/	Satisfactory	GOOD	GOOD	GOOD
9	279	616	53	76	/	/	Satisfactory	GOOD	GOOD	GOOD
10	291	608	56	79	/	/	Satisfactory	GOOD	GOOD	GOOD

Remarks:

1. Pipes tested per ASTM A999
2. No weld repair performed for billet and pipe
3. All tubes annealed to 1904°F to 1994°F and water quenched below 800°F in 3 minutes

Judge:



Stamp of quality inspection Dept



NOTE: WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED, SAMPLED, TESTED, AND INSPECTED IN ACCORDANCE WITH THE RESPECTIVE STANDARD AND SATISFIES THE REQUIREMENTS.

ADDESSS: No.217 Ruiyang Road, Songyang Industrial Zone, Lishui City, Zhejiang, China