



TUBIFICIO DI TERNI
TUBIE PROFILATI DI ACCIAIO INOSSIDABILE
 Divisione della Società Acciai Speciali Terni S.p.A. con Unico Socio
 Sede Legale e Stabilimento: 05100 TERNI - Viale B. Brin, 218
 Capitale Sociale € 159.682.400 i.v.
 Codice fiscale e numero di iscrizione del registro delle imprese di Terni 11222300151
 Tel. 0744/8081 - Fax 0744/812902 - P. I.V.A. 00715760559

INSPECTION CERTIFICATE

n°: 22957/2019

(According to EN 10204 3.1)

Description: DECORATIVE WELDED TUBES (material 304D AISI 304/W1.4301) **XAB n°:** 13273 del 07/03/2019
PRODUCED AND TESTED ACCORDING TO: ASTM A 554

Item	Quantity	Dimensions	Ref. P. Customer	Heat	Coil	Bundle nr. / N° di Collo
2	m.1014	20.0 x 1.50 x 6000.0	20001020015	0454417	330007	L319020019
15	m.900	20.0 x 20.00 x 1.50	2200102015	0531423	3508021	H419020976
17	m.1290	25.0 x 25.00 x 2.00	2200102520	0454949	353812	H419010454 H419010455
19	m.384	30.0 x 30.00 x 3.00	2200103030	0530889	326208	H418101031
20	m.480	35.0 x 35.00 x 2.00	2200103520	0455017	361404	H419020277

Heat analysis (%) Acc.to EN 10088-2(10028-7 TI)Acc.to (CEE) 2000/53/CE

Item	Heat	C	Si	S	P	Mn	Cr	Ni	Mo	Ti	Nb	N
2	0454417	0.038	0.31	0.001	0.028	1.33	18.04	9.07	0.23			0.027
15	0531423	0.045	0.32	0.001	0.031	1.26	18.03	8.02	0.32			0.057
17	0454949	0.049	0.33	0.001	0.031	1.25	18.06	8.05	0.28			0.052
19	0530889	0.032	0.33	0.001	0.031	1.70	18.19	8.05	0.25			0.069
20	0455017	0.028	0.32	0.001	0.027	1.68	18.10	8.04	0.25			0.065

Results of tensile test Performed according to ISO 6892

Coil	Specimen thickness	Rp02(MPa)	Rm(MPa)	A 5 (%)	HRB
330007	mm 1.50	483	625	43.3	74.5
3508021	mm 1.50	285	647	56.2	82.0
353812	mm 2.00	640	790	41.2	84.0
326208	mm 3.00	300	650	49.8	83.5
361404	mm 2.00	309	657	50.0	

Visual and dimensional tests SATISFACTORY(EN-ISO 1127 D3/T3
 100%(EN10893-1)(EN10893-2,E1H)

Flattening test SATISFACTORY-ISO 8492
 Cone expanding test (60°) SATISFACTORY-ISO 8493
 Radial expanding test SATISFACTORY-ISO 8495
 Bending test SATISFACTORY

We certify that products listed above comply with order requirements.

Inspector Signature

Dr.ssa Patrizia RUSSO

NDT Livello 2 Signature

Sig. Marco CAIAZZO

Responsible Signature

Ing. Roberto Marini

Terni, 08/03/2019

Page: 1



TUBIFICIO DI TERNI
TUBIE PROFILATI DI ACCIAIO INOSSIDABILE
 Divisione della Società Acciai Speciali Terni S.p.A. con Unico Socio
 Sede Legale e Stabilimento: 05100 TERNI - Viale B. Brin, 218
 Capitale Sociale € 159.682.400 i.v.
 Codice fiscale e numero di iscrizione del registro delle imprese di Terni 11222300151
 Tel. 0744/8081 - Fax 0744/812902 - P. I.V.A. 00715760559

INSPECTION CERTIFICATE

N°: 22957/2019

(According to EN 10204 3.1)

Description: DECORATIVE WELDED TUBES (material 304D AISI 304/W1.4301) XAB n°: 13273 del 07/03/2019
 PRODUCED AND TESTED ACCORDING TO: ASTM A 554

Item	Quantity	Dimensions	Ref. P. Customer	Heat	Coil	Bundle nr. / N° di Collo
22	m.1140	40.0 x 20.00 x 2.00	220010402020	0453941	311414	H418100240
				0454107	323812	H418101076
24	m.624	50.0 x 50.00 x 2.00	2200105020	0455162	366117	H419020746
				0455203	366127	H419020880
27	m.180	60.0 x 60.00 x 2.00	2200106020	0453526	292219	H419020936

Heat analysis (%) Acc.to EN 10088-2(10028-7 TI)Acc.to (CEE) 2000/53/CE

Item	Heat	C	Si	S	P	Mn	Cr	Ni	Mo	Ti	Nb	N
22	0453941	0.046	0.33	0.001	0.032	1.37	18.07	8.07	0.27			0.050
	0454107	0.049	0.32	0.001	0.029	1.26	18.14	8.02	0.28			0.060
24	0455162	0.026	0.31	0.001	0.027	1.72	18.09	8.03	0.30			0.066
	0455203	0.030	0.34	0.001	0.029	1.70	18.13	8.02	0.31			0.069
27	0453526	0.024	0.31	0.001	0.031	1.71	18.12	8.05	0.32			0.070
												0.410
												0.150

Results of tensile test Performed according to ISO 6892

Coil	Specimen thickness	Rp02(MPa)	Rm(MPa)	A 5 (%)	HRB
311414	mm 2.00	288	644	52.7	80.0
323812	mm 2.00	273	617	56.8	79.5
366117	mm 2.00	310	660	49.1	82.5
366127	mm 2.00	311	648	47.5	82.0
292219	mm 2.00	298	632	49.8	84.0

Visual and dimensional tests SATISFACTORY(EN-ISO 1127 D3/T3
 100%(EN10893-1)(EN10893-2,E1H)

Flattening test SATISFACTORY-ISO 8492
 Cone expanding test (60°) SATISFACTORY-ISO 8493
 Radial expanding test SATISFACTORY-ISO 8495
 Bending test SATISFACTORY

We certify that products listed above comply with order requirements.

Inspector Signature

Dr.ssa Patrizia RUSSO

NDT Livello 2 Signature

Sig. Marco CAIAZZO

Responsible Signature

Ing. Roberto Marini



TUBIFICIO DI TERNI
TUBIE PROFILATI DI ACCIAIO INOSSIDABILE
 Divisione della Società Acciai Speciali Terni S.p.A. con Unico Socio
 Sede Legale e Stabilimento: 05100 TERNI - Viale B. Brin, 218
 Capitale Sociale € 159.682.400 i.v.
 Codice fiscale e numero di iscrizione del registro delle imprese di Terni 11222300151
 Tel. 0744/8081 - Fax 0744/812902 - P. I.V.A. 00715760559

INSPECTION CERTIFICATE

n°: 22957/2019

(According to EN 10204 3.1)

Description: DECORATIVE WELDED TUBES (material 304D AISI 304/W1.4301) **XAB n°:** 13273 del 07/03/2019
PRODUCED AND TESTED ACCORDING TO: ASTM A 554

Item	Quantity	Dimensions	Ref. P. Customer	Heat	Coil	Bundle nr. / N° di Collo
30	m.672	60.0 x 40.00 x 2.00	220010604020	0454517	357433	H419020022
32	m.150	80.0 x 80.00 x 2.00	2200108020	0454995	359523	H419020010
33	m.150	80.0 x 80.00 x 3.00	2200108030	0454955	363007	OL19022171
				0531597	351110	OL19022202

Heat analysis (%) Acc.to EN 10088-2(10028-7 TI)Acc.to (CEE) 2000/53/CE

Item	Heat	C	Si	S	P	Mn	Cr	Ni	Mo	Ti	Nb	N
30	0454517	0.043	0.32	0.001	0.030	1.35	18.06	8.02	0.29			0.064
	0454995	0.025	0.30	0.001	0.028	1.76	18.14	8.11	0.16			0.066
32	0454955	0.022	0.29	0.001	0.030	1.72	18.21	8.02	0.27			0.068
33	0531597	0.060	0.36	0.001	0.032	1.21	18.08	8.06	0.32			0.043

Results of tensile test Performed according to ISO 6892

Coil	Specimen thickness	Rp02(MPa)	Rm(MPa)	A 5 (%)	HRB
357433	mm 2.00	282	635	56.3	80.5
359523	mm 2.00	307	664	50.2	82.5
363007	mm 2.00	318	661	54.0	84.0
351110	mm 3.00	297	663	51.0	85.0

Visual and dimensional tests **SATISFACTORY(EN-ISO 1127 D3/T3**
100%(EN10893-1)(EN10893-2,E1H)

Flattening test **SATISFACTORY-ISO 8492**
 Cone expanding test (60°) **SATISFACTORY-ISO 8493**
 Radial expanding test **SATISFACTORY-ISO 8495**
 Bending test **SATISFACTORY**

We certify that products listed above comply with order requirements.

Inspector Signature

Dr.ssa Patrizia RUSSO

NDT Livello 2 Signature

Sig. Marco CAIAZZO

Responsible Signature

Ing. Roberto Marini