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(A 02) Inspection Certificate 3.1 EN 10204 according to EN 10204:2004 alphanumeric codes according to EN 10168:2004

(A 03) Certificate Number 10524437743 (Z 02) Issue Date 26/06/2024

CUSTOMER DATA AND DELIVERY

(A 06.1)CUSTOMER: NEREZOVE MATERIALY, S.R.O.

(A 06.1)Customer Code: 0000068417

(A 06.2)CONSIGNEE: NEREZOVE MATERIALY, S.R.O.

(A 06.2)Consignee Code: 0000068417

Of (A 10)**Delivery Number:** 8930449627 26/06/2024 26/06/2024 (A 10)Shipping Notice: 1005006209 Of

ORDER DATA

1191748064/000800 (80 A)Marcegaglia Order Number: (A 07)Customer Order Number: OV-1004/2024 Date Of Order Confirmation To The 02/04/2024 (A 07)

Customer: Part Number:

(A09)PRODUCT IDENTIFICATION

(B 01) Material Code: 59004678

TXT003 35x1,5x6000 TP304L LAS LZ (B 09, B 10, B 11) Material Description:

(B 02)Stainless Steel Grade: 14307 TP 304L 1.4307/1.4301 X2CrNi18-9/X5CrNi18-10

EN 10217-7 TC1 EN 10357 ASTM A270 Manufacturing Standard: (B 03)

Dimensional Tolerance (B 03)

Standard:

EN 10357 - DIN 11850

LASER WELDING (B 14)Welding Technology: (B 04)**Delivery Conditions:** CL1 W2b CC

Heat Treatment: (B 05)

Additional Works: (B 15)

{LGO:MARCEGAGLIA} \$Diametro\$ X \$Spessore_Nom\$ Heat n°\$Colata\$ EN 1.4301/EN (B 06)Marking:

1.4307 - TP 304/TP 304L EN10217-7 TC1 EN 10357 \$Stato di Fornitura\$ \$Sigla\$ \$Data\$

\$Ora\$

BRUSHED

SUPPLIED BATCH CHARACTERISTICS

ITEM	(B 07, C00) BATCH NUMBER	(B 05) HEAT NUMBER	(B 16) QUANTITY (M)	(B 17) QUANTITY (KG)	(B 08) QUANTITY (PCS)
1	24W5001269	0550349	546	625.45	91
	21110001200	00000-10	340	023.43	31

(C70) STEELMAKING PROCESS: ELECTRIC ARC FURNACE-VOD/AOD-CONTINUOUS CASTING

CHEMICAL ANALYSIS

The chemical analysis refers to the raw material used. In accordance with EN 10204:2004 the values of the chemical analysis, unless otherwise specified, refer to the 3.1 type certificate of the raw material supplier.

ITEM	(B 07, C00) BATCH NUMBER	(C 71) C (%)	(C 72) Si (%)	(C 73) Mn(%)	(C 74) P (%)	(C 75) S (%)	(C 76) N (%)	(C 77) Cr (%)	(C 78) Ni (%)
	MIN							17.5	8
	MAX	0.03	1	2	0.045	0.015	0.11	19.5	10
1	24W5001269	0.014	0.317	1.013	0.0252	0.0118	0.0466	18.041	8.013
2	24W5001270	0.014	0.317	1.013	0.0252	0.0118	0.0466	18.041	8.013

MECHANICAL PROPERTIES

The mechanical properties are measured on each tube batch

		TENSILE TEST (C 03) AT ROOM TEMPERATURE t = (22 ± 4)°C					
		(C 01) SAMPLE POSITION	(C 02) SAMPLE DIRECTION	(C 12) Rp0.2 (MPa)	(C 12) Rp1.0 (MPa)	(C 11) Rm (MPa)	(C 13) A5 (%)
	MIN			180	215	470	40
	MAX					670	
ITEM	(B 07, C00) BATCH NUMBER						
1	24W5001269	CAMP1	L	371	410	601	49.4
2	24W5001270	CAMP1	L	371	410	601	49.4

DESTRUCTIVE TESTS

(C 62) DRIFT EXPANDING TEST ACCORDING TO EN ISO 8493:2005: CONFORM

(C 60) FLATTENING TEST ACCORDING TO EN ISO 8492:2004: CONFORM

(C 63)RING EXPANDING TEST ACCORDING TO EN ISO 8495:2004: CONFORM

TENSILE TEST ACCORDING TO EN ISO 6892-1:2009

(D 51)INTERGRANULAR CORROSION TEST ACCORDING TO EN ISO 3651-2:1998: CONFORM

NON DESTRUCTIVE TESTS

(D 02) EDDY CURRENT TEST FOR THE VERIFICATION OF HYDRAULIC LEAKTIGHTNESS ACCORDING TO EN ISO 10893-1:2011: CONFORM

(D 03)EDDY CURRENT TEST FOR THE DETECTION OF IMPERFECTIONS ACCORDING TO EN ISO 10893-2:2011: CONFORM

(D 05)ANTIMIXING TEST: CONFORM

(D 01) VISUAL INSPECTION AND DIMENSIONAL CONTROLS: CONFORM

CLASS 1 - CL1 ROUGHNESS RA VALUES MEASURED FOR RAW MATERIAL MAX 0.8 UM AND INTERNAL WELDING AREA MAX 1.6 UM ACCORDING TO EN 10357: CONFORM

(D 90) WELDING PROCESSES QUALIFICATION

WELDING PROCESS QUALIFICATION: ALL LASER WELDING PROCESS ARE QUALIFIED IN ACCORDING EN STANDARDS AND DIRECTIVE PED 2014/68/EU ALL.I PAR.3.1.2 BY THE NOTIFIED BODY 0474 (RINA).

THE WPS\WPAR ARE AVAILABLE ON REQUEST AT THE MARCEGAGLIA SPECIALTIES FACTORY IN FORLIMPOPOLI - FC - ITALY. WPS LASER ACCORDING TO UNI EN ISO 15609-4; WPAR LASER ACCORDING TO UNI EN ISO 15614-11 AND AD2000-MERKBLATT HP 2/1. ALL HIGH FREQUENCY INDUCTION WELDING PROCESS ARE QUALIFIED ACCONRDING TO INTERNAL PROCEDURE.

(D 91) QUALIFICATION OF WELDING PERSONNEL AND NON-DESTRUCTIVE TESTING PERSONNEL

ALL LASER WELDING OPERATORS ARE QUALIFIED IN ACCORDING TO UNI EN ISO 14732; ALL NDT-ET OPERATORS ARE QUALIFIED IN ACCORDING TO UNI EN ISO 9712.

LL HIGH FREQUENCY INDUCTION WELDING OPERATORS ARE QUALIFIED ACCONRDING TO INTERNAL PROCEDURE.

(D 92) SYSTEM CERTIFICATIONS

QUALITY SYSTEM CERTIFIED ACCORDING TO EN 9001:2015 AND IATF 16949:2016 AND ISO 3834-2:2005 AND A SAFETY SYSTEM CERTIFIED ACCORDING TO ISO 45001:2018 AND AN ENVIROMENTAL SYSTEM CERTIFIED ACCORDING TO ISO 14001:2015 AND ENERGY SYSTEM CERTIFIED ACCORDING TO ISO 50001:2018.

(D 93) PRODUCT CERTIFICATIONS

DVGW ACCORDING TO GW541 LASER AND TIG WELDED TUBES STAINLESS STEEL GRADE 1.4404 DIA FROM 15.00 TO 108.00MM AND GRADE 1.4521 FROM 15.00 TO 54.00MM.

TUV AD2000 W2\W10 AND PED ANNEX I, PARAGRAPH 4.3 LASER AND TIG WELDED TUBES STAINLESS STEEL GRADE 1.4301, 1.4306, 1.4307, 1.4401, 1.4404, 1.4541, 1.4571, 1.4435, 1.4436 THICKNESS FROM 0.80 TO 4.00MM AND DIAMETRS FROM 8.00 TO 283.00 MM. EHEDG FOR DAIRY TUBES TXT015. EUROPEAN DIRECTIVE 1935:2004 FOR DAIRY TUBES TXT003, TXT014, TXT015.

(D 94) NOTE

CHEMICAL COMPOSITION ACCORDING TO EN 10028-7 TUBE TO EN 10217-7 TC1 DIN 11850 AND DIRECTIVE 2014/68/EU (PED) WELDING FACTOR V=1

RAW MATERIAL ACCORDING TO NORSOK M-630 / MDS S15

CERTIFICATE VALIDATION

- (Z 01) Dichiarazione di Conformità: WE CERTIFY THAT THE ABOVE MENTIONED PRODUCTS COMPLAY WITH THE TERMS OF ORDER CONTRACT AND THE STANDARDS RECALLED IN THE PRESENT TEST CERTIFICATE (Z 02) The present test certificate is validated by **S.Toscano** Quality Manager, Marcegaglia Specialties Forlimpopoli Plant authorized inspection representative, independent of the manufacturing department (Z 03) this document was generated automatically and is valid without signature as, in according to EN 10204:2004, the present inspection certificate is validated by the responsible person with name and position.