



**INSPECTION CERTIFICATE
EN 10204:2004 / 3.1**

Number: 737250 Page: 1 / 4	Rev:
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Created on: Date: 28.09.2022	Modified on:
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*PO 8008025
SS-T4-S-049-20*

SCHOELLER-BLECKMANN Edelstahlrohr GmbH
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CUSTOMER DESCRIPTION

CLIENT SOLD TO TSS TUBACEX SERVICE SOLUTIONS, S.A.U POLIGONO INDUSTRIAL SARATXO 01470 AMURRIO ESPAÑA	SOLD TO: TUBACEX AMERICA, INC. SOLD P.O. REF.: 621642 SOLD ORDER REF.: 379371 COPY NUMBER: 001
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CLIENT ORDER: I009784

SALES ORDER:

MATERIAL: SEAML. STAINL. STEEL TUBES/PIPES/TUBOS INOXIDABLES SIN SOLDADURA/TUBES INOX SANS SOUDURE/NAHTLOSE EDELSTAHLROHRE
 BRIGHT ANNEALED / RECOCIDO BRILLANTE / RECUIT BRILLANT / BLANKGEGLÜHT, PASSIVATED AS PER ASTM A380 / PASIVADO SEGUN ASTM A380 / PASSIVÉ (ASTM A380) / PASSIVIERT (ASTM A380)
 GRADE / ACERO / GRADE / WERKSTOFF: S31600, S31603, TP316, TP316L, 1.4401, 1.4404,
 STANDARD / NORMA / STANDARD / LIEFERUNG NACH: AD 2000 W2/01.2020 EINBAUROHRE
 ASME SECT.II PART.A SA213/SA213M-2021 ED.
 ASTM A213/A213M-19A
 ASTM A269/A269M-15a
 EN 10297-2:2005
 EN 10216-5:2021 TC1
 AD 2000 W10/05.2016
 CORROSION TESTED ACC. TO ASTM A262 PRACTICE E
 CORROSION TESTED ACC. TO EN ISO 3651-2 PRACTICE A
 HYDROSTATIC TEST AT 350 BAR
 HARDNESS MAX. 80 HRB
 NORSOK M630 REV.6 MDS S01 REV.5
 ANSI/NACE MR0103/ISO 17945:2015
 ANSI/NACE MR0175/ISO15156-3:2015
 TRB 100 FEBRUAR 1995
 TRD 100 MAI 1991
 EDDY CURRENT TESTED ACC. TO ISO 10893-1
 TOLERANCES / TOLERANCIAS / TOLERANCES / TOLERANZEN NACH: ASTM A269/A269M-15a
 EN ISO 1127/03.97 D4/T3
 FIXED LENGTHS / LARGOS FIJOS / LONGUEUR FIXE / GENAULÄNGE 6.096 MM
 PLAIN ENDS / LISOS / EXTRÉMITÉ D'EQUERRE / GLATTE ENDEN,
 DIMENSIONS/DIMENSIONES/DIMENSIONS/DIMENSIONS: 6,35 X 1,24/1,22 MM/1 4"ODX18 BWG/SWG/1/4"OD X 0,049"/0,048"
 COLD FINISHED/LAMINADOS EN FRIO/KALTGEFORMT/LAMINES A FROID

Sales Item	Client Item	Delivery No	Lot No.	Heat No	Pieces	Weight	Tot Lgth	Un Lgth
20		8170096778	291321	58732	500	1.062,629 LB	10.000,000 FT	20,000-0,000 FT



Certified Management
System acc. to
ISO 9001, ISO 14001 and
ISO 45001 by LRQA

**SCHOELLER-BLECKMANN
EDELSTAHLROHR GMBH**

M. Borzacchini
HR. M. BORZACCHINI

(WORKS INSPECTOR)

We hereby certify that the material herein described has been manufactured, sampled, tested, and inspected in accordance with above standards and specifications and satisfies order's requirements. This certificate is issued by a computerized system and it is valid without original signature. In case the owner of the certificate would release a copy of it, he must attest its conformity to the issued, assuming the responsibility for any unlawful or TUBACEX, not allowed use. Any forgery or falsification of this certificate shall legally prosecuted.

TSS S.A.U as commercial operation intermediary certifies that this certificate is a true copy of the manufacturer original certificate. TSS S.A.U makes a copy of the original certificate without changing the properties specified in the original purchase order and the product specification referenced.

RAW MATERIAL		
Heat Nr:	Supplier	Method
58732	ACERALAVA (SPAIN)	Electric furnace+AOD

CHEMICAL COMPOSITION (%)											
*L: Ladle C:Products											
*	Heat	Seq	C	Mn	Si	P	S	Ni	Cr	Mo	N
L	58732	1	0,016	1,60	0,380	0,028	0,0080	11,31	16,83	2,17	0,0605
C	58732	1	0,015	1,68	0,420	0,027	0,0080	11,32	16,90	2,20	0,0630

HEAT TREATMENT
HIPERTEMLADOS A 1100 °C , 10 min , J
SOLUTION ANNEALED AT 1100 °C , 10 min , JET
HYPERTREMPE 1100 °C , 10 min , J
LOESUNGSGEGLUEHT 1100 °C , 10 min , Jet

TENSILE TEST							
Lot No	Sample	T	Rp0.2	Rp1.0	Rm	A2"	A5
		°C	KSI	KSI	KSI	%	%
Min		20	30	35	75	35	40
Max		20			100		
291321	1	20	37	40	79	49	65
	2	20	38	41	80	49	65

HARDNESS TEST			
Lot No	Sample	HRB	HV
Min			
Max		80	150
291321	1	75	141
	2	76	142

METALURGICAL TESTS/ENSAYOS METALÚRGICOS/METALLURGISCHE PRÜFUNGEN/ESSAIS METALLURGIQUES

INTERGRANULAR CORROSION TEST ACC. TO ASTM A262 PRACT."E": SATISFACTORY
 ENSAYO DE CORROSION INTERGRANULAR DE ACUERDO A ASTM A262 PRACT.E:
 SATISFACTORIO

BESTÄNDIGKEIT GEGEN INTERKRISTALLINE KORROSION ENTSPRECHEND ASTM A262
 PRACT.E: IN ORDNUNG

ESSAI DE CORR. INTERGR. SELON ASTM A262 PRACT.E:SATISFAISANT

INTERGRANULAR CORROSION TEST ACC. TO DIN 50914/DIN EN ISO 3651-2 MET.A:
 SATISFACTORY

ENSAYO DE CORROSION INTERGRANULAR DE ACUERDO A DIN 50914/ DIN EN ISO
 3651-2 MET.A: SATISFACTORIO

BESTÄNDIGKEIT GEGEN INTERKRISTALLINE KORROSION ENTSPRECHEND DIN 50914/
 DIN EN ISO 3651-2 VERF.A: IN ORDNUNG

ESSAI DE CORR. INTERGR. SELON ASTM DIN 50914/DIN EN ISO 3651-2 MET.A:
 SATISFAISANT



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**NON-DESTRUCTIVE TESTS/ENSAYOS NO DESTRUCTIVOS/ZERSTÖRUNGSFREIE
PRÜFUNGEN/ESSAIS NON DESTRUCTIFS**

POSITIVE MATERIAL IDENTIFICATION TEST ON EACH TUBE/PIPE BY
"X-RAY-FLUORESCENCE-ANALYZER": SATISFACTORY
VERIFICACION DEL GRADO DE ACERO EN CADA TUBO MEDIANTE "ANALIZADOR DE
FLUORESCENCIA DE RAYOS X": SATISFACTORIO
VERWECHSLUNGSPRUEFUNG AN JEDEM ROHR MIT
"RÖNTGEN-FLUORESZENZ-ANALYSATOR": IN ORDNUNG
VERIFICATION DE LA NUANCE SUR CHAQUE TUBE PAR
"X-RAY-FLUORESCENCE-ANALYZER": SATISFAISANT

HYDROSTATIC PRESSURE TESTED AT 350 bar, 5100 PSI DURING 5 SEC ON EACH
TUBE/PIPE: SATISFACTORY
ENSAYO HIDROSTÁTICO A 350 bar, 5100 PSI DURANTE 5 SEC EN CADA TUBO:
SATISFACTORIO
WASSERDRUCKPRÜFUNG BEI 350 bar, 5100 PSI HALTEZEIT 5 SEC JE ROHR: IN
ORDNUNG
ESSAI DE PRESSION HYDROSTATIQUE À 350 bar, 5100 PSI PENDANT 5 SEC SUR
CHAQUE TUBE: SATISFAISANT

100% EDDY CURRENT TEST AT ISO 10893-1: SATISFACTORY
100% ENSAYO DE CORRIENTES INDUCIDAS DE ACUERDO A ISO 10893-1:
SATISFACTORIO
100% WIRBELSTROM PRUEFUNG NACH ISO 10893-1: O.B.
100% CONTROLE COURANTS FOUCAULT D'APRES ISO 10893-1: BIEN

**TECHNOLOGICAL TESTS/ENSAYOS TECNOLÓGICOS/TECNOLOGISCHE
PRÜFUNGEN/TECHNOLOGICAL TESTS**

FLARING TEST: SATISFACTORY
ABOCARDADO S.NORMA: SATISFACTORIO
AUFWEITVERSUCH: IN ORDNUNG
ESSAI D'EVASEMENT: SATISFAISANT

FLATTENING TEST: SATISFACTORY
APLASTADO S.NORMA: SATISFACTORIO
RINGFALTVERSUCH: IN ORDNUNG
ESSAI D'APLATISSEMENT: SATISFAISANT

BESICHTIGUNG UND NACHMESSUNG: IN ORDNUNG
INSPECTION AND CHECKING OF DIMENSIONS: SATISFACTORY
INSPECTION ET CONTROL DES DIMENSIONS: SATISFAISANT

DIE WERKSTOFFWERTE ENSPRECHEN PUNKT 7.5 DER DRUCKGERÄTERICHTLINIE



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2014/68/EU, ANHANG 1, MIT EINER BRUCHDEHNUNG VON MINDESTENS 14 % IM ZUGVERSUCH UND EINER KERBSCHLAGARBEIT VON MINDESTENS 27 J AN EINER ISO-V-KERBSCHLAGPROBE BEI 20° C.

MATERIAL CHARACTERISTICS COMPLY WITH POINT 7.5 OF ANNEX I TO PRESSURE EQUIPMENT DIRECTIVE 2014/68/EU BY HAVING AN ELONGATION AFTER RUPTURE AT TENSILE TEST NO LESS THAN 14 % AND A BENDING RUPTURE ENERGY AT IMPACT TEST NO LESS THAN 27 J AT 20°C.

MARKING

SCHOELLER BLECKMANN / TUBACEX GROUP - SBS 6,35 X 1,24/1,22 MM/1 4"ODX18 BWG/SWG/1/4"OD X 0,049"/0,048" ASME SA213 ASTM A213 ASTM A269 EN 10216-5 TC1 EN 10297-2 S31600 S31603TP316 TP316L 1.4401 1.4404 CFA CD AW SMLS HEAT/ PMI-AV LOT NO/ MADE IN AUSTRIA T/A ZFP

REMARKS

NO WELD REPAIR HAS BEEN PERFORMED ON THE MATERIAL.

MATERIAL IS FREE OF RADIOACTIVE CONTAMINATION
MECHANICAL TESTS WERE PERFORMED IN LONGITUDINAL DIRECTION IF NOT OTHERWISE STATED.

MATERIAL MANUFACTURER APPROVED WITH CERTIFICATE NR. 245/2004/MUC BY TÜV SÜDDEUTSCHLAND (NOTIFIED BODY 0036) TO ISSUE CERTIFICATES OF SPECIFIC PRODUCT CONTROL IN ACCORDING TO PRESSURE EQUIPMENT DIRECTIVE 2014/68/EU.



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