



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

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Created on: Date: 18.11.2022	Modified on:

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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: 003**

**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 10216-5:2021 TC1  
EN 10297-2:2005  
AD 2000 W10/05.2016  
CORROSION TESTED ACC. TO ASTM A262 PRACTICE E  
CORROSION TESTED ACC. TO EN ISO 3651-2 PRACTICE A  
EDDY CURRENT TESTED ACC. TO ISO 10893-1  
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  
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 0,91/0,89 MM/1/4"ODX20 SWG/BWG/1/4"OD X 0,036"/0,035"  
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
10	350 BAR / 5100 PSIG	8170097358	294323	58661	722	1.192,702 LB	14.439,993 FT	20,000-0,000 FT



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

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 as 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.

**SCHOELLER-BLECKMANN  
EDELSTAHLROHR GMBH**

*HR. M. BORZACCHINI*  
HR. M. BORZACCHINI

(WORKS INSPECTOR)

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: 58661 Supplier: ACERALAVA (SPAIN) Method: Electric furnace+AOD

**CHEMICAL COMPOSITION (%)**

\*L: Ladle C:Products

	Heat	Seq	C	Mn	Si	P	S	Ni	Cr	Mo	N
L	58661	1	0,009	1,49	0,330	0,028	0,0070	11,20	16,70	2,11	0,0630
C	58661	1	0,010	1,54	0,360	0,027	0,0070	11,09	16,62	2,13	0,0650

**HEAT TREATMENT**

HIPERTEMPLADOS A 1100 °C , 10 min , J  
SOLUTION ANNEALED AT 1100 °C , 10 min , JET  
HYPERTREMPES 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	%	%
<b>Min</b>		20	30	35	75	35	40
<b>Max</b>		20			100		
294323	1	20	35	38	79	45	63
	2	20	36	38	80	47	65

**HARDNESS TEST**

Lot No	Sample	HRB	HV
<b>Min</b>			
<b>Max</b>		80	150
294323	1	72	134
	2	72	132

**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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ISO 45001 by LRQA

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*M. Borzacchini*  
HR. M. BORZACCHINI

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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-FLUORESSENZ-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 0,91/0,89 MM/1/4"ODX20 SWG/BWG/1/4"OD X 0,036"/0,035" 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**

MECHANICAL TESTS WERE PERFORMED IN LONGITUDINAL DIRECTION IF NOT OTHERWISE STATED.

NO WELD REPAIR HAS BEEN PERFORMED ON THE MATERIAL.

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.

MATERIAL IS FREE OF RADIOACTIVE CONTAMINATION



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