



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

Number: 661119 Page: 1 / 4	Rev:
Created on: Date: 28.03.2017	Modified on:

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**SS-T8-S-035-20
PO 8008025**

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: 005
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CLIENT ORDER: 506041

SALES ORDER: 193535

MATERIAL:SEAML. STAINL. STEEL TUBES/PIPES/TUBOS INOXIDABLES SIN SOLDADURA/TUBES INOX SANS SOUDURE/NAHTLOSE EDELSTAHLROHRE
BRIGHT ANNEALED / RECOCIDO BRILLANTE / RECUIT BRILLANT / BLANKGEGLÜHT, PASSIVATED / PASIVADO / PASSIVÉ / PASSIVIERT
GRADE / ACERO / GRADE / WERKSTOFF: TP316,TP316L,TP316L_MO2.5,
STANDARD / NORMA / STANDARD / LIEFERUNG NACH: ASME SECT.II PART.A SA213/SA213M-2015 ED.
ASTM A213/A213M-15c
ASTM A269/A269M-15a
HARDNESS MAX. 80 HRB
ANSI/NACE MR0175/ISO15156-3:2015
ONGC SPEC. NO. 3507 REV. No. 04
TOLERANCES / TOLERANCIAS / TOLERANCES / TOLERANZEN NACH: EN ISO 1127/03.97 D4/T3
FIXED LENGTHS / LARGOS FIJOS / LONGUEUR FIXE / GENAULÄNGE 6.096 MM + 10 MM,
PLAIN ENDS / LISOS / EXTRÉMITÉ D'EQUERRE / GLATTE ENDEN,
DIMENSIONS/DIMENSIONES/DIMENSIONS/DIMENSIONS: 12,70 X 0,89 MM
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
80		8170070091	254615	52333	550	1.981,957 LB	11.000,000 FT	20,000-0,000 FT

RAW MATERIAL		
Heat Nr:	Supplier	Method
52333	ACERALAVA (SPAIN)	Electric furnace+AOD

CHEMICAL COMPOSITION (%)		*L: Ladle C:Products								
*	Heat	Seq	C	Mn	Si	P	S	Ni	Cr	Mo
L	52333	1	0,014	1,40	0,340	0,026	0,0030	11,25	16,25	2,61
C	52333	1	0,016	1,47	0,360	0,024	0,0060	11,45	16,41	2,69

HEAT TREATMENT
HIPERTEMLADOS 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



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

**SCHOELLER-BLECKMANN
EDELSTAHLROHR GMBH**

Riegler

FR. N. RIEGLER

(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 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.

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.

TENSILE TEST

Lot No	Sample	T	Rp0.2	Rm	A2"
		°C	KSI	KSI	%
Min		20	30	75	35
Max		20			
254615	1	20	49	92	48
	2	20	49	91	46

HARDNESS TEST

Lot No	Sample	HRB	HV
Min			
Max		80	150
254615	1	78	148
	2	78	148

**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

**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 1000 PSI DURING 5 SEC
ON EACH TUBE/PIPE: SATISFACTORY
ENSAYO HIDROSTÁTICO A 1000 PSI DURANTE 5 SEC
EN CADA TUBO: SATISFACTORIO
WASSERDRUCKPRÜFUNG BEI 1000 PSI HALTEZEIT 5 SEC
JE ROHR: IN ORDNUNG
ESSAI DE PRESSION HYDROSTATIQUE À 1000 PSI PENDANT 5 SEC
SUR CHAQUE TUBE: SATISFAISANT

EDDY CURRENT TEST ACC. TO ASTM A1016
AT 100 % OF EXTENT OF DELIVERY: SATISFACTORY



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

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100% ENSAYO DE CORRIENTES INDUCIDAS DE ACUERDO A
ASTM A1016: SATISFACTORIO

OBERFLAECHE N RAUHGIGKEIT "Ra" (AN 80% DER MESSWERTE)
AUSSEN (MAX. 1,6 ym): 0,8 ym
SURFACE ROUGHNESS "Ra" (BY 80% OF VALUES MEASURED)
OUTSIDE (MAX. 1,6 ym): 0,8 ym

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

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

BURST TEST: SATISFACTORY
BERSTTEST ERGEBNIS: IN ORDNUNG

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

THE TUBES/PIPES CONFORM ALSO TO NACE STANDARD
MR0175/ISO 15156-3

BESICHTIGUNG UND NACHMESSUNG: IN ORDNUNG
INSPECTION AND CHECKING OF DIMENSIONS: SATISFACTORY

MARKING

SCHOELLER BLECKMANN / TUBACEX GROUP - SBS 12,70 X 0,89 MM ASME SA213 ASTM A213 ASTM A269 TP316 TP316L TP316L
CD AW SMLSHEAT/ PMI-AV LOT NO/ 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



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

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REMARKS
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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