

GM SALES CO.
STAINLESS & ALLOY

STAINLESS & ALLOY SUPPLY
A DIVISION OF G M SALES CO.

6901 E. 11TH ST.
TULSA OK 74112
Phone: 258-8181

PICKING SLIP

Bill To:
TESCORP, INC.
P.O. BOX 471453
TULSA OK 74147

Ship To: 918-665-0031
TESCORP
8525 E. 46TH STREET
TULSA OK 74145

Cust#: 444
Order Dt: 09/03/20
P/S#: 286067-00
Pick Dt: 09/09/20
Operator: MTB
Request Dt:
Page No: 1

Customer P.O. # Terms COMMENT

F-0820-0351S1 1% 10, net 30

Item Description	U/M	Qty On B/O	Qty To Ship	Qty Shipped	Substitute #	Line
10DS418D 12" S40s T316/L WLD PIPE DOMESTIC <i>SS3X</i> **CUT 1 PC - 4' LONG, BBE**	FT		4	<u>4</u>		10
*MISC 3" 150# F316/L RFWN STD BORE DOMESTIC heat # GF2031B	EA		1	<u>1</u>		20
*MISC 2" 150# F316/L RFWN XH BORE DOMESTIC HEAT # GE1188A	EA		2	<u>2</u>		30
10DS809SA 2" S/80s T316/L SMLS PIPE APPROVED <i>SS2100</i> **CUT 1 PC - 5" LG, BBE**	FT		.417	<u>.417</u>		40
10DS809SA 2" S/80s T316/L SMLS PIPE APPROVED <i>SS2100</i> **CUT 1 PC - 2.5" LG, BBE**	FT		.209	<u>.209</u>		50
10DS411SA 3" S40 T316 SMLS PIPE -APPROVED <i>971052</i> **CUT 1 PC - 5.5" LG, BBE**	FT		.459	<u>.459</u>		60
MTR	EA		1	<u>1</u>		70

(CONTINUED ON NEXT PAGE)

HHS
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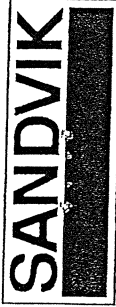
Cust#: 444
Order Dt: 09/03/20
P/S#: 286067-00
Pick Dt: 09/09/20
Operator: MTB
Request Dt:
Page No: 2

Customer P.O. # F-0820-035151 Terms 1% 10, net 30 COMMENT

Item Description	U/M	Qty On B/O	Qty To Ship	Qty Shipped	Substitute #	Line
MATERIAL TEST REPORTS						
...						
128711						
...						

Handwritten: 1 pipe slip

PICKED BY: GM NO CARTONS: 100X POUNDS: _____ ORDER TOTAL: _____
ALL SHORTAGES OR DISCREPANCIES MUST BE REPORTED WITHIN 10 DAYS.
SHIP DATE: 9/10/20 SHIP VIA: OUR TRUCK FREIGHT: _____ B/L NO: _____



Plant Location: 982 Griffin Pond Road, Clarks Summit, PA 18411
Sold To: 683726

SOUTHWEST STAINLESS - TULSA
TULSA OK

Ship To:
SOUTHWEST STAINLESS - TULSA
TULSA OK

Customer Order No: 615669-00
Sandvik Order No: 347659/163

Certification Date: 20190123

Work Order/Lot: 44061

ASTM A312-17, ASME SA-312, ASME Section II, 2017 Edition
NACE MR0175/ISO 15156, 3rd Edition 2015-11-23, (Austenitic)
NACE MR0103/ISO 17945:2016

Hot Finished Seamless Pipe
Type TP316/TP316L (UNS S31600/S31603) Size: 3" SCH 40
Heat: 552928

Material Manufacturer: SMT SANDVIKEN, SWEDEN

ANALYSIS %		P		S		Cr		Ni	
C	0.014	Si	0.42	Mn	1.47	P	0.027	S	0.009
Fe	2.11	Mo	2.11	Co	.13	Al		Cr	16.79
								Ni	11.21

Mechanical Tests:

Yield Strength		Tensile Strength		Elongation in %		Reduction Of Area %			
0.2%	1.0%	psi	MPa	psi	MPa	E2"	E10"	E4d	E5d
41050	283.1	N/A	N/A	91080	628.1	51	N/A	N/A	N/A

Hardness Test Results: 75HRBW, 77HRBW
Hydrostatic Test (psi): 2180

Flattening Test per ASTM A530/A999 and ASME SA530/SA999: Acc
eptable
Tensile Test sample width (1=Full-Size 2=1/2" Strip): 2
Country Of Origin: Sweden

100% Positive Material Identification performed
All material subjected to a final solution annealing heat
treatment with material at a temperature of 1900 deg. F
minimum followed by rapid quenching to below 800 deg. F in
less than three (3) minutes.

The material has not come in contact with Mercury or Mercury
containing compounds.
No welding has been performed on this material.
The grade 304L and 316L are not covered by ASTM A376 or ASME
SA376 specifications. Therefore, these specifications do
not apply to these grades.

Material has been manufactured/supplied in accordance
with Sandvik Materials Technology Quality Manual-Commercial
Products Revision 0 dated Dec. 7, 2017. Quality system
has been approved to ISO 9001:2015 (Cert# 10047907, 02JAN18)
No unauthorized alterations. The content of this inspection
certificate may not be modified or revised in any way
without the prior written approval of Sandvik Materials

MATERIAL CERTIFICATE

Cert#: 1900022208

Page 2

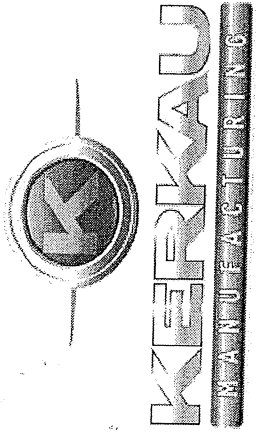
Technology. Unauthorized alterations to the inspection certificate, including introduction of false, fictitious or fraudulent statements or entries, may be punishable by fines, imprisonment, or both. Contravention of this notice will be prosecuted to the fullest extent of the applicable laws. Inspection certificate produced in accordance with EN 10204 3.1 (formerly EN 10204 3.1.B). No unauthorized alterations. The contents of this Inspection Certificate may not be modified or revised in any way without the prior written approval of Sandvik Materials Technology. Unauthorized alterations to the Inspection Certificate, including introduction of false, fictitious or fraudulent statements or entries, may be punishable by fines, imprisonment, or both. This Inspection Certificate may be copied only in the manner and for the purposes specified in EN 10204:2004, Section 6. Contravention of this notice will be prosecuted to the fullest extent of the applicable law(s).

Melt Source: SMT SANDVIKEN, SWEDEN

Melt Method: Electric Furnace

This is to certify that the contents of this certificate are correct and accurate as contained in Sandvik's records, and that all above test results and operations performed are in compliance with the requirements of the purchase order and the specification(s) listed above.

Electronically Generated Certificate-Valid without signature
John Scherer, Quality Mgr-Tube
10 (FW A/SA312 R1) (I2) (LXLOGIST)



Flanges-Precision Machining

1321 Valley Center Dr.
Bay City, MI 48706

Phone (989) 686-0350
Toll Free (800) 248-5060
Fax (989) 686-0399

Material Test Report

Date: 09/04/2020

Sold To: GM SALES CO. STAINLESS & ALLOY
P.O. BOX 4677

Ship To: STAINLESS & ALLOY SUPPLY
A DIVISION OF GM SALES INC
6901 E 11TH ST

US

US

Order No: 6383354

Ship Instructions: Mitch Baker

PO No: 128711

Item Description

2 150# WN RF XH/S80 F316/316L ASTM A182-2015 ASME SA182-2015

Heat No.
GE1188A

C%	Mn%	P%	S%	Si%	Cr%	Cu%	Ni%	Mo%	N%
0.025	1.600	0.040	0.012	0.350	17.000	0.00	10.070	2.060	0.074

Tensile (PSI)	Yield (PSI)	Elong %	Reduction %	Brinell	Rockwell	CE
80,786	43,946	54.4	73.62	152-156		4.775
Impact			Shear	Lateral Exp.		

"THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENT OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL STATUTE."

DIN 50049/EN 10204 3.1

NACE MR0103-2012, NACE MR0175/ISO 15156:2009

NO WELD REPAIR, MERCURY FREE. ELONGATION IN 4D.

IGC TEST IN ACCORDANCE WITH ASTM A262 PRACTICE E.

YIELD STRENGTH WAS DETERMINED USING THE 0.2% OFFSET METHOD. SOLUTION SOLUTION ANNEALED @ 1080°C FOR 4HRS, WATER QUENCHED

THIS IS A DIGITALLY CREATED DOCUMENT

Brian Dennis

BRIAN DENNIS/QUALITY CONTROL



390 Bristol Metals Rd.
Bristol, TN 37620

RM ID NUMBER
3067146
SALES ORDER / RLS
20175362721
CERT ID / REV
26901

MILL TEST REPORT

SOLD TO:
TEXAS PIPE & SUPPLY CO.
2330 HOLMES RD.
HOUSTON, TX 77051

<u>CUSTOMER P.O.</u> 18733800	<u>CUSTOMER PART</u>	<u>HEAT NO.</u> 553X
DESCRIPTION: 3301200040316312010		
12" WELDED PIPE SCH 40S TP316/TP316L (UNS# S31600/S31603) A312/SA312		
CERTIFICATION REQUIREMENTS		
ENGINEERING		
ASTM A312-17 ASME SA312-15		
HYDRO PRESSURE		
900 PSI		
HEAT TREAT		
Annealed at 1900 - 2000 Deg F. and water quenched to below 800 Deg. F. in less than 3 minutes.		
Chemical		
Test	Result	Test
Carbon	.0146	3067146
Manganese	1.5815	Elongation
Phosphorus	.0275	Hardness RB
Sulfur	.0106	Tensile
Silicon	.242	Yield
Nickel	10.015	
Chromium	16.535	
Molybdenum	2.0585	Tension
Nitrogen	.0388	TG Face Bend
Country of Origin	USA	Pass
		Pass
		52.34
		89.5
		84550
		47140

This report shall not be altered or reproduced, except in full, without the prior written approval of Bristol Metals LLC. This test report represents the actual attributes of the items furnished and all items were manufactured, sampled, inspected, and tested in full compliance with applicable specifications and your purchase order.

Certification is in accordance with EN10204:2004 type 3.1.

Chemical content is % by weight. Mechanical test results are in English units (inches and pounds).

No weld repairs have been performed on the base material.

Hardness in accordance with NACE MR0175/ISO 15156-3:2009 and MR0103-2012 and material is free of cold work to enhance mechanical properties.

Pipe is Pickled and Passivated in accordance with ASTM A380.

Bristol Metals has a Quality Management System in place that is in compliance with ISO 9001:2008.

In compliance with Pressure Equipment Directive (PED) 2014/68/EU as Category 1 material unless otherwise stated.

Bristol Metals does not add mercury or radioactive materials during any manufacturing process.

NAFTA country of origin: USA. Pipe/Tube Manufactured in the USA. Raw Material Melt Source: USA

FAR BAA - Complies, DFARS BAA - Complies, FAR TAA - Complies.

Pipe/Tube has been double welded using an EFW process.

QF-576

Date Printed: 10/17/2017

Jan R. Bennett

Quality Assurance Manager

(A01) Salzgitter Mannesmann Stainless Tubes France SAS
(A05) B.P.10 - F 21501 Montbard Cedex - FRANCE
www.mannesmann-stainless-tubes.com



INSPECTION CERTIFICATE
Abnahmeprüfzeugnis
Certificat de Réception
EN 10204: 2004 TYPE 3.1

(A02) (A03) No. / Nr. / N° 3-19-06048-rev.01 Pag. 1 / 5

(A06) Purchaser / Besteller / Acheteur
Texas Pipe & Supply Co.
2330 Holmes Road
77051-1098 Houston
Texas
Etats-Unis

(A07) Customer Order No / Kundenauftragsnr. / N° Commande Client
228579-00
(A08) SMST-Tubes Order No / Auftragsnr. / N° Commande SMST
0000279244
SMST-Item (A09) Part No / Teilenummer / Part number
0000279244-000005

(B01) (B02) (B04) Product Description / Produkt Beschreibung / Description du Produit

Seamless Stainless Steel Hot Finished Pipes Solution Annealed Pickled / Passivated Plain Ends Square Cut Deburred
Rohre warmgefertigt nahtlos rostfreier Stahl lösungsgelüht / gebeizt / passiviert glatte Enden rechteckig gesägt entgratet
Tubes sans soudure Acier Inoxydable Fini à chaud Remis en solution Décapés / Passivés Extrémités lisses coupés d'équerre

Specifications / Spezifikationen / Spécifications ASME SA 312 17; ASME SA 376 17; ASTM A 312 18; ASTM A 376 17; ANS/NACE MR0103/ISO 17945 2016; ANS/NACE MR0175/ISO 15156-3 2015

Grade / Werkstoff / Nuance TP 316; TP 316L; DMV 316L

Tolerances / Toleranzen / Tolérances A 312

(B03) Supplementary Requirements / Zusatzanforderungen / Exigences Supplémentaires

None / Keine / Aucune

(B06 - D01) Marking of the Product / Kennzeichnung des Produkts / Marquage du Produit

MANNESMANN MST-F - ASTM A 376 / ASTM A 312 / ASME SA 376 / ASME SA 312 - DMV 316L - TP 316 / TP 316L - NPS 3 X SCH 40S - \$INDIV_LENGTH_FT\$ FT - SML - HEAT \$HEAT_NBR\$ - \$QUAL_LOT_NBR\$ - FRANCE - \$ORDER_ID\$

Technical marking

Country of Origin of the tubes / Herstellungsland der Rohre / Pays d'origin des tubes

France / Frankreich / France

		Quantity / Menge / Quantité			Dimensions / Abmessung / Dimensions			
(B07) Heat Schmelze Coulée	Quality Lot Qualitätslos Lot Qualité	SMST-Item	(B08) Pieces Stück Pièces	(B13) Weight Gewicht Poids	(B16) Length Länge Longueur	(B09) OD	(B10) WT	(B11) Ordered Length Auftragslänge Longueur commandée
								min max
970032	QL30137788	000005	34	2746.00 kg 6053.90 lbs 6053.90 lbs	229.995 m 754.58 ft 754.58 ft	88.90 mm NPS 3 3.500 "	5.49 mm SCH 40S 0.216 "	7315 mm 20.00 ft 20.00 ft
			34	2746.00 kg	229.995 m			
			34	6053.90 lbs	754.58 ft			

Heat Analysis / Schmelzanalyse / Analyse de Coulée

	Request	C	Si	Mn	P	S	Cr	Ni	Mo
(B07) Heat Schmelze Coulée	Heat Origin Ursprung der Schmelze Origine de la Coulée	0.00 0.035	0.00 0.75	0.00 2.0	0.00 0.045	0.0000 0.0300	16.0 18.0	11.0 14.0	2.0 3.0
970032	(C70) Melting Process Erschmelzung Procédé d'élaboration E + AOD	% 0.014	% 0.37	% 1.55	% 0.025	% 0.0020	% 16.70	% 11.32	% 2.04

(A01)
(A05)

Salzgitter Mannesmann Stainless Tubes France SAS
B.P.10 - F 21501 Montbard Cedex - FRANCE
www.mannesmann-stainless-tubes.com



A Member of the Salzgitter Group

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EN 10204: 2004 TYPE 3.1

(A02)

(A03) No. / Nr. / N°

3-19-06048-rev.01 Pag. 3 / 5

Intergranular Corrosion Test / Prüfung der interkristallinen Korrosion / Essai de corrosion intergranulaire

ASTM A 262 PRACTICE E // MIL-P-2469/1/3 Feb. 1991 Ad 1

	Request	Max	
	Unit		
Quality Lot Qualitätslos Lot Qualité	(C00) Sample	Result Ergebnis Resultat	
QL30137788	30420261	Satisfactory	
	30420262	Satisfactory	

(A01) **Salzgitter Mannesmann Stainless Tubes France SAS**
(A05) B.P.10 - F 21501 Montbard Cedex - FRANCE
www.mannesmann-stainless-tubes.com



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(A02) EN 10204: 2004 TYPE 3.1

(A03) No. / Nr. / N° **3-19-06048-rev.01** Pag. **4 / 5**

QL30137788

Heat Treatment / Wärmebehandlung / Traitement thermique : ANNEALED BY DIRECT QUENCHING - Rapid
Cooling off the extrusion press - Temperature : 1038°C (1900°F) min

(D01) Visual and dimensional inspection (VT) on 100% of tubes according to the order
Besichtigung und Maßkontrolle von 100% der Rohre gemäß Auftrag
Examen visuel et dimensionnel sur 100% des tubes selon la commande

Satisfactory
Bestanden
Satisfaisant

(D51) Antimixing Check (PMI) on 100% of tubes
Verwechslungsprüfung an allen Rohren mittels Spektralprüfung von 100% der Rohre
Contrôle anti-mélange par PMI sur 100% des tubes

Satisfactory
Bestanden
Satisfaisant

(D52) Hydro Pressure Test on 100% of tubes 5 sec. at 1900.00 PSI ASTM A999 (EP_1107)
Wasserdruckprüfung auf 100% Rohren 5 sec. mit 1900.00 PSI ASTM A999 (EP_1107)
Epreuve Hydraulique sur 100% des tubes 5 sec. avec 1900.00 PSI ASTM A999 (EP_1107)

Satisfactory
Bestanden
Satisfaisant

No Weld Repair
Keine Reparaturschweißung
Aucune réparation par soudure

SMST declares that the product was manufactured, sampled, tested, inspected and packed in accordance with the specifications and any other requirements designated in the purchase order within the extent listed in SMST order acknowledgment, and has been found to meet such requirements

(Z01) SMST bestätigt, dass die Rohre hergestellt, beprobt, geprüft, kontrolliert und gepackt wurden in Übereinstimmung mit den Spezifikationen und anderen Anforderungen in der Kundenbestellung innerhalb des Umfangs wie dieser in der SMST Auftragsbestätigung aufgeführt wurde. Die Rohre entsprechen den Auftragsanforderungen
SMST Atteste que les produits sont fabriqués, prélevés, testés, inspectés et emballés en conformité aux spécifications et autres exigences stipulées dans la commande d'achat avec les limites décrites dans l'accusé de réception de la commande. Les produits livrés sont conformes à ces stipulations

Tubes are free from mercury contamination and from radioactive contamination
Die Rohre sind frei von Quecksilberverunreinigungen und frei von radioaktiver Verunreinigung
Les tubes sont exempts de contamination par le mercure et de contamination radioactive

The material is conforming to directive 2000/53/EC and 2011/65/EU
Das Material entspricht den Anforderungen der Richtlinien 2000/53/EC und 2011/65/EU
Le matériau est conforme aux directives 2000/53/EC et 2011/65/EU

Confirmation with reference to Pressure Equipment Directive 2014/68/EU:
The works operates a quality management system that has undergone a specific assessment for materials for pressure equipment and is certified by a competent body (TUV-SUD-Cert.No: 05/2018/MAN)
Bestätigung in Bezug auf Druckgeräterichtlinie 2014/68/EU:
Das Werk wendet ein Qualitätsmanagementsystem an, das in Bezug auf Werkstoffe für Druckgeräte einer spezifischen Bewertung unterzogen wurde und von einer zuständigen Stelle (TUV-SUD-Cert.No: 05/2018/MAN) zertifiziert ist.
Confirmation concernant la Directive Equipements sous Pression 2014/68/EU:
L'usine applique un système de management de la qualité qui a fait l'objet d'une évaluation spécifique pour les matériaux pour équipements sous pression et qui est certifié par un organisme compétent (TUV-SUD-Cert.No: 05/2018/MAN)

(Z02) Mill's Inspector
Werkssachverständiger
Le Contrôleur usine

Stephanie Monsat (U)

Date of Edition
Ausgabedatum
Date d'Edition
03/07/2019

This certificate is issued by SALZGITTER MANNESMANN STAINLESS TUBES via a computerized system bearing a traceable unique number. It is valid without signature. An intermediary may only pass on the original certificate without any alterations. Providing a copy of the original is only permitted subject to strict compliance with the prerequisites set out in § 6 of EN 10204:2004 i.e. traceability and availability of the original upon request. Any modification or alteration of the certificate or any copies are strictly prohibited. Any contravention of this notice or § 6 of EN 10204:2004 is illegal and will be prosecuted. Any falsification of a certificate e.g. by introducing false or fraudulent data for the purpose of promoting the sales of goods is a criminal offence under German law (and many other jurisdictions) punishable with fines and imprisonment. If an authentication is needed, please contact info@mst.mannesmann.com

Certificate anti counterfeiting check
Prüfung der Zeugnisse gegen Fälschung
Contrôle de la contrefaçon des certificats

(A01) Salzgitler Mannesmann Stainless Tubes France SAS
(A05) B.P.10 - F 21501 Montbard Cedex - FRANCE
www.mannesmann-stainless-tubes.com



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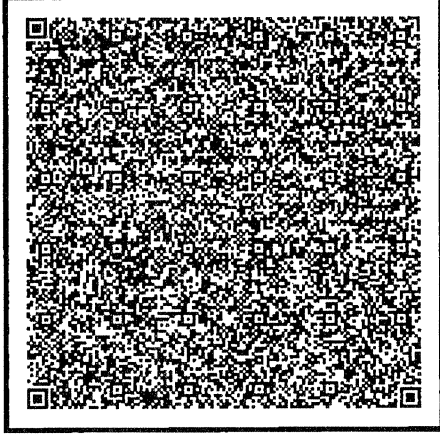
(A02)

(A03) No. / Nr. / N°

3-19-06048-rev.01

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By scanning it with your mobile device you can check if the inspection Certificate is genuine.

Ein Teil der Informationen der ersten Zeugnis-Seite sind in verschlüsselter Form in dem oben dargestellten QR Code enthalten. Beim Scannen mit einem mobilen Gerät kann das Zeugnis auf Authentizität geprüft werden.

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