



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#: 286063-00
Pick Dt: 09/08/20
Operator: MTB
Request Dt:

Page No: 1

Customer P.O. # Terms **1% 10, net 30** **COMMENT**

F-0820-03515

Item Description	U/M	Qty On B/O	Qty To Ship	Qty Shipped	Substitute #	Line
10DS416D 8" S/40 T316/L WELDED PIPE DOMESTIC **CUT 1 PC - 2' LONG, BBE** <i>S20176</i>	FT		2	<u>2</u>		10
*MISC EA 3" 150# RFWN F316/L STD BORE DOMESTIC <i>GF 2031B</i>	FT		.708	<u>.708</u>		20
10DS411SA 3" S40 T316 SMLS PIPE -APPROVED IMPORT **CUT 2 PCS - 4-1/4" LG, BBE** <i>9170032</i>	FT		.339	<u>.339</u>		30
*MISC EA 2" S/80s T316/L SMLS PIPE APPROVED **CUT 1 PC - 4-1/16" LG, BBE** <i>SS220M</i>	FT		1	<u>1</u>		40
*MISC EA 2" 150# RFWN F316/L XH BORE DOMESTIC <i>GE 1188A</i>	FT		1	<u>1</u>		50
*MISC EA 3" S/40 45° ELBOW, 316/L DOMESTIC came in 9/8/2020 heat # nhlw	EA		1	<u>1</u>		60
MTR MATERIAL TEST REPORTS (CONTINUED ON NEXT PAGE)	EA		1	<u>1</u>	<i>Has copy</i>	70



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Pick Dt: 09/08/20
Operator: MTB
Request Dt:
Page No: 2

Customer P.O. # Terms C O M M E N T
F-0820-0351S 1% 10, net 30

Item Description	U/M	Qty On B/O	Qty To Ship	Qty Shipped	Substitute #	Line
... 128711, 128713 ...						

*8' pipe in shop
PIPE W/2 HOP*

PICKED BY: GM/box NO CARTONS: 180 x 4 POUNDS: ORDER TOTAL:
ALL SHORTAGES OR DISCREPANCIES MUST BE REPORTED WITHIN 10 DAYS.
SHIP DATE: SHIP VIA: OUR TRUCK FREIGHT: B/L NO:



1001 E Waterfront Dr,
Munhall, PA 15120

MILL TEST REPORT

Lot Number
2018-24328
SALES ORDER / RLS
201920705500
CERT ID / REV
89447



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

CUSTOMER P.O. 23786900		CUSTOMER PART		HEAT NO. 520176	
DESCRIPTION: 3308000000403163120100 8" WELDED PIPE SCH 40S TP316/TP316L (UNS# S31600/S31603) A312/SA312					
CERTIFICATION REQUIREMENTS					
ENGINEERING					
ASTM A312-18a ASME SA312-17					
EDDY CURRENT EXAM					
PASS IAW ASTM E309 USING DRILLED HOLE STANDARDS					
HEAT TREAT					
Annealed at 1900 Min. Deg F. and water quenched to below 800 Deg. F. in less than 3 minutes.					
Chemical			Mechanical		
Test	Result	Test	Result	Test	Result
Carbon	.011	Elongation	52.4		
Manganese	1.47	Hardness RB	80		
Phosphorus	.036	Tensile	88905		
Sulfur	.0099	Yield	45105		
Silicon	.56				
Nickel	10.06	Tension	Pass		
Chromium	16.64	TG Face Bend	Pass		
Molybdenum	2.06				
Nitrogen	.032				
Country of Origin	USA				

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 ENI 0204:2004 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/Tube has been Pickled and Passivated in accordance with ASTM A380. Bristol Metals has a Quality Management System in place that is in compliance with ISO 9001:2015. 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:USA FAR BAA -Complies, DEARS BAA -Complies, FAR YAA - Complies. This product is in full compliance with the American Iron and Steel requirement of P.L. 113-76 and as mandated in EPA's State Revolving Funds Program

QF-576

Date Printed: 09/30/2019

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

(A02) EN 10204: 2004 TYPE 3.1

(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 warmgerollt nahtlos rostfreier Stahl lösungsgelüht gebleicht / passiviert glatte Enden rechteckig gesägt entgratet
Tubes sans soudure Acier Inoxydable Fini à chaud Remis en solution Décapés / Passivés Extrémités lisses coupées d'équerre

Specifications / Spezifikationen / Spécifications
ASME SA 312 17; ASME SA 376 17; ASTM A 312 18; ASTM A 376 17; ANSI/INACE MR0103/ISO 17945 2016; ANSI/INACE 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

Technical marking

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\$

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

France / Frankreich / France

(B07) Heat Schmelze Coulée	Quality Lot Qualitätslos Lot Qualité	SMST-Item	Quantity / Menge / Quantité		Dimensions / Abmessung / Dimensions				
			(B08) Pieces Stück Pièces	(B13) Weight Gewicht Poids	(B16) Length Länge Longueur	(B09) OD	(B10) WT	(B11) Ordered Length Auftragslänge Longueur commandée	
970032	QL30137788	0 00005	34	2746.00 kg	88.90 mm	5.49 mm	min	7315 mm	
				6053.90 lbs	NPS 3	SCH 40S	20.00 ft	24.00 ft	
				6053.90 lbs	3.500 "	0.216 "	20.00 ft	24.00 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			
									Min	0.00	0.00
Max	0.035	0.75	2.0	0.045	0.0300	18.0	14.0	3.0			
(C70) Melting Process Erschmelzung sart Procédé d'élaboration	%	%	%	%	%	%	%	%			
(B07) Heat Schmelze Coulée	Heat Origin Ursprung der Schmelze Origine de la Coulée	Italy	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
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(A02)

(A03) No. / Nr. / N° 3-19-06048-rev.01 Pag. 2 / 5

Product Analysis / Produktanalyse / Analyse sur Produit

ASTM A 376 // ASTM A 312 // ASME SA 312 // ASME SA 376

Request	C	Si	Mn	P	S	Cr	Ni	Mo
	Min	0.00	0.00	0.00	0.00	0.0000	16.0	11.0
Max	0.035	0.75	2.0	0.045	0.0300	18.0	14.0	3.0
Quality Lot Qualitätslos Lot Qualité	(C00) Sample	%	%	%	%	%	%	%
QL30137788	30420261	0.014	0.38	1.54	0.0014	16.7	11.3	2.0
	30420262	0.013	0.38	1.54	0.0014	16.7	11.3	2.1

Sampling done on tubes in manufacturing length / Beprobung erfolgte an Rohren in Herstelllänge / Échantillonnage réalisé par longueur de fabrication

Tensile Test at Room Temperature / Zugversuch bei Raumtemperatur / Essai de traction à température ambiante

ASTM A 370

(C02) Direction: LONGITUDINAL

(C10) Description: STRIP TEST SPECIMEN

Request	Min	Max	(C11)	(C12)	(C13)	(C14)
	YS 0.2%			U.T.S.	EL	
Quality Lot Qualitätslos Lot Qualité	(C00) Sample	ksi	ksi	%	Width	
QL30137788	30420262	41	82	50.5	12.504	

Sampling done on tubes in manufacturing length / Beprobung erfolgte an Rohren in Herstelllänge / Échantillonnage réalisé par longueur de fabrication

(C30) Hardness Test / Härteprüfung / Essai de dureté

ANSI/NACE MR0175/ISO 15156-3 // ANSI/NACE MR0103/ISO 17945

Request	(C00) Sample	(C31) Min	(C32) Max	(C31) Avg
	QL30137788	30420262	<18	<18

Sampling done on tubes in manufacturing length / Beprobung erfolgte an Rohren in Herstelllänge / Échantillonnage réalisé par longueur de fabrication

(C50) Flattening Test / Falversuch / Essai d'aplatissement

ASTM A 999

Quality Lot Qualitätslos Lot Qualité	(C00) Sample	(C00) Sample	Result Ergebnis Resultat
QL30137788	30420261	30420262	OK

Sampling done on tubes in manufacturing length / Beprobung erfolgte an Rohren in Herstelllänge / Échantillonnage réalisé par longueur de fabrication

(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. 3 / 5

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

ASTM A 262 PRACTICE E // MIL-P-24691/3 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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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)
Wasserdrukprüfung 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-SÜD-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-SÜD-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-SÜD-Cert.No: 05/2018/MAN)

(Z02) Mill's Inspector
Werkssachverständiger
Le Contrôleur usine

Stephanie Monsat (IU)

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

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@msm.mannesmann.com

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

(A01)
(A05)

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



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EN 10204: 2004 TYPE 3.1

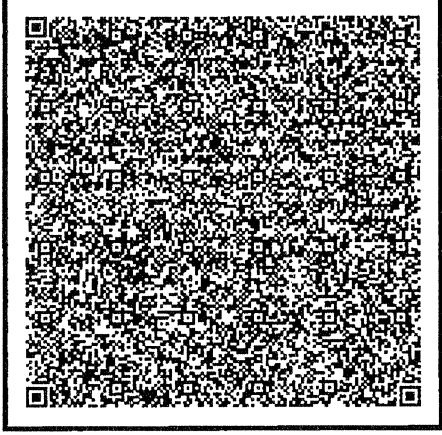
(A02)

(A03) No. / Nr. / N°

3-19-06048-rev.01

Pag.

5 / 5



A set of information from the Inspection Certificate cover page are included in encrypted form in the above QR code.

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.

Une partie des informations contenues dans la première page de ce certificat d'inspection sont disponibles sous forme cryptée dans le "QR Code" ci-dessus. Lors de la lecture avec votre appareil mobile, vous pouvez vérifier l'authenticité du certificat d'inspection.



www.materials.sandvik.com

Sandvik Materials Technology
Product Area Tube

982 Griffin Pond Rd, Clerks Summit, PA US 18411, Ph: 570-585-7500

MATERIAL CERTIFICATE

Cert#: 180023267

Page 1

Plant Location: 982 Griffin Pond Road, Clerks Summit, PA 18411
Sold To: 8650 Ship To:
TEXAS PIPE & SUPPLY CO., INC. TEXAS PIPE & SUPPLY CO., INC
HOUSTON TX HOUSTON TX
Customer Order No: 198904-00 Certification Date: 20180808
Sandvik Order No: 346071/72

Work Order/Lot: 40662

ASTM A312-17, ASME SA-312, ASTM A376-17, ASME SA-376, ASME Section II
2017 Edition, NACE MR0175/ISO 15156, 3rd Edition 2015-11-23
(Austenitic), NACE MR0103/ISO 17945:2016, MIL-P-24691/3 Corrosion

Hot Finished Seamless Pipe
Type TP316/TP316L (UNS S31600/S31603)

Size: 2" SCH 80
Heat: 552204

ANALYSIS %		Mn		P		S		Cr		Ni	
Heat	C	Si	0.39	1.56	0.023	0.008	16.78	Ni	11.18		
Heat	Fe	Mo	Al	Pb							
			2.02								

Mechanical Tests:

Yield Strength		Tensile Strength		Elongation		Reduction		
0.2%	1.0%	psi	MPa	psi	MPa	in %	Of Area %	
41480	286.1	N/A	88620	611.2	50	N/A	E4d N/A	E5d N/A

Hardness Test Results: 76HRBW, 76HRBW, 77HRBW, 78HRBW
Hydrostatic Test (psi): 2510

Flattening Test per ASTM A530/A999 and ASME SA530/SA999: Acc

eptable
Tensile Test sample width (1-Full-Size 2-1/2" Strip): 2
This material complies with DFARS 252.225-7001 (2012)
This material does not comply with DFARS 252.225-7008 (2013)
This material does not comply with DFARS 252.225-7009 (2013)
This material complies with FAR 52.225-5 (1999)
Corrosion Test per ASTM A262 Pr.E, MIL-P-24691/3,
Amendment #1, and MIL-P-1144D. No. samples: 2 Result: Acc

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

MATERIAL CERTIFICATE

Cert#: 180023267

Page 2

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 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).

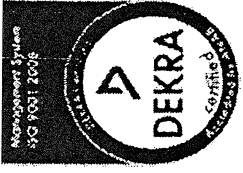
No unauthorized alterations. The contents of this Inspection Certificate may not be modified or revised in any way without the prior written approval of Sandvik Materials Technology. Unauthorized alterations to the Inspection Certificate, including introduction of false, fictitious or fraudulent statements 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).

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
12 (A/SA312/376 NMP R7) (12) (LXLOGIST)



Taylor Forge Stainless, Inc.
 22 Readington Rd, North Branch, NJ 08876
 Tel: 908-722-1313; Toll Free: 1-800-223-1068; Fax: 908-722-2943



Material Test Report

Shipment No: 0000050296

Sold To:
 TEXAS PIPE & SUPPLY CO.
 2330 HOLMES ROAD
 HOUSTON TX - 77051

Ship To:
 TEXAS PIPE & SUPPLY CO.
 2330 HOLMES ROAD
 HOUSTON TX - 77051

Customer PO Number: 127602-00

TFS Sales Order: 25644X

Item ID: 19805

Item Desc: 3 LR 45 40S WP316/316LS A/SA403

Mill Heat: YX1005-525

Heat Code: NHLW

Quantity: 35.00

Chemical Properties

C (%)	Cr (%)	Mn (%)	Mo (%)	Ni (%)	P (%)	S (%)	Si (%)
0.02	16.32	0.66	2.03	10.07	0.035	0.001	0.3

Physical Properties

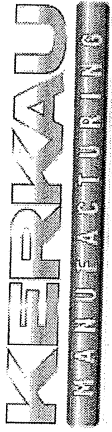
EL (%)	TS (PSI)	YS (PSI)
52	87023	43511

Notes:

ASTM A403-11/ASME SA403 2010 EDITION 2011a ADDENDA
 FITTINGS WERE SOLUTION ANNEALED @ 1900 DEG F MINIMUM AND WATER QUENCHED.
 NACE MR0103-2010 & MR 0175 / ISO 15156-3:2003, 2007Addenda Compliant-Hardness <RC22
 MADE IN USA
 EN 10204:2004/3.1
 FITTINGS WERE MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH
 THE SPECIFICATION AND FOUND TO MEET THE REQUIREMENTS.
 NO MERCURY, HALOGEN AND LOW MELTING POINT ALLOY CONTAMINATION.
 MARKING MATERIALS DO NOT CONTAIN HARMFUL AMOUNTS OF CHLORIDES, METALS OR
 METALLIC SALTS SUCH AS ZINC OR COPPER.
 ASME B16.9
 ISO9001:2008 QUALITY SYSTEM, CERTIFICATE#11144.01, EXPIRATION 9/14/2013.

S. H. Blum

Stanley Grant
 QA Assistant Manager



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: 638354

Ship Instructions: Mitch Baker

PO No: 128711

Item Description

3 150# WN RF STD/S40 F316/316L ASTM A182-2015 ASME SA182-2015

Heat No.

GF2031B

C%	Mn%	P%	S%	Si%	Cr%	Cu%	Ni%	Mo%	N%
0.020	1.700	0.041	0.012	0.310	16.700	0.00	10.040	2.030	0.060

Tensile (PSI)	Yield (PSI)	Elong %	Reduction %	Brinell	Rockwell
82,671	43,946	48.57	71.87	152-154	CE 4.719

Impact

Shear Lateral Exp.

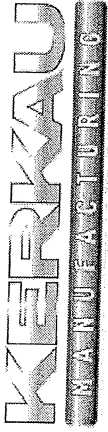
"THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENT OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE AS A FEL UNDER FEDERAL STATUTE."

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 ANNEALED @ 1080°C FOR 4HRS. WATER QUENCHED

THIS IS A DIGITALLY CREATED DOCUMENT

Brian Dennis

BRIAN DENNIS/QUALITY CONTROL



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

PO No: 128711

Ship Instructions: Mitch Baker

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.

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