

Sold To: 632580

SANDVIK DE MEXICO

TLALNEPANTLA, EDO MEXICO

Customer Order No: 450867

Sandvik Order No: 77087/9

Work Order/Lot: 524309

Ship To:

GAISA FORWARDING INC

LAREDO TX

Certification Date: 20090526

ASTM A312-08a, ASME SA-312, ASTM A376-06, ASME SA-376, ASME Section II
 2007 Edition, 2008 Addenda, NACE MR0175 / ISO 15156
 First edition 2003-12-15, (Austenitic)

Hot Finished PROCESS ANNEALED AND PICKLED Seamless Pipe

Type TP316/TP316L (UNS S31600/S31603)

Size: 2 1/2" SCH 40

Heat: 519988

Material Manufacturer: Pennsylvania Extruded Tube Co. USA

ANALYSIS %

	C	Si	Mn	P	S	Cr	Ni
Heat	.013	.39	1.70	.026	.009	17.05	11.20
Prod	.012	.40	1.70	.028	.008	17.05	11.17
	Fe	Mo	Al	Pb			
Heat		2.03	.005				
Prod		2.01	.004				

Mechanical Tests:

Yield Strength		Tensile Strength		Elongation				Reduction	
0.2%	1.0%			in %				Of Area	
psi	MPa	psi	MPa	E2"	E10"	E4d	E5d	%	
39400	271.7	N/A		88200	608.3	52	N/A	N/A	N/A

Hardness Test Results: 77HRB, 78HRB

Hydrostatic Test (psi): 2200

Flattening Test per ASTM A999: Acceptable

Tensile Test sample width (1=Full-Size 2=1/2" Strip): 2

Corrosion Test per ASTM A262 Pr.E: Acceptable

Country Of Origin: United States

This Material complies with FAR BAA (FAR 52.225-1)

This Material complies with DFARS BAA (DFARS 252.225-7001)

and FAR TAA (FAR 52.225-5)

All material subjected to a final solution annealing heat
 treatment with material at a temperature of 1900 deg. F
 minimum followed by rapid quenching.

The material has not come in contact with Mercury or Mercury
 containing compounds.

No welding has been performed on this material.

Material has been manufactured/supplied in accordance

with Sandvik Materials Technology Quality Manual-Standard

Products Revision 10 dated May 29, 2007. Quality system

has been approved to ISO 9001:2000.

Certificate produced in accordance with EN-10204 3.1

(formerly EN 10204 3.1.B)

Melt Source: AB Sandvik MT, Sweden

Melt Method: Electric Arc Furnace-AOD Refining

This is to certify that the contents of this certificate

are correct and accurate as contained in Sandvik's records,

PLEASE ANAHUAC Y CIAS. S.A. DE C.V.
 CONTROL DE CALIDAD
 FECHA: 26 ene 2010
 0000195
 Enrique Ruiz

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
Audrey Kakareka, Quality Engr.
10 (STKA312/376 R27) (32) (US36542)