



Sandvik Materials Technology

Product Area Tube
P.O. Box 1220
Scranton
PA USA 18501
570-585-7500

200916974

www.smt.sandvik.com
www.smt.sandvik.com/nafta

Page 1

Sold To: 632580
SANDVIK DE MEXICO
TLALNEPANTLA, EDO MEXICO
Customer Order No: 450867
Sandvik Order No: 77087/19
Work Order/Lot: 45134

Ship To:
GAISA FORWARDING INC
LAREDO TX
Certification Date: 20090526

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

Hot Finished PROCESS ANNEALED AND PICKLED Seamless Pipe
Type TP316/TP316L (UNS S31600/S31603)
Size: 4" SCH 40
Heat: 521534

ANALYSIS %

Table with 8 columns: Element (C, Si, Mn, P, S, Cr, Ni, Fe, Mo, Cu, Al, Pb), Heat, and values. Includes rows for C, Si, Mn, P, S, Cr, Ni and Fe, Mo, Cu, Al, Pb.

Mechanical Tests:

Table with 5 columns: Yield Strength (0.2%, 1.0%), Tensile Strength, Elongation (E2, E10, E4d, E5d), and Reduction of Area. Values are provided in psi and MPa.

Hardness Test Results: 81HRB, 84HRB
Hydrostatic Test (psi): 1890

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, MIL-P-24691/3 and MIL-P-1144D. No. samples: 1 Result: Acceptable
Country Of Origin: Sweden
Material Does Not Qualify for NAFTA
100% Positive Material Identification performed
The grade 304L and 316L are not covered by ASTM A376 or ASME SA376 specifications. Therefore, these specifications do not apply to these grades.
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.

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

Handwritten signature and date: 26 Feb 2010, Enrique Ruiz. Includes stamp: CONTROL DE CALIDAD.

Melt Method: Electric Arc 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  
Audrey Kakareka, Quality Engr.  
12 (A/SA312/376NACE R18) (12) (US36542)