



Sandvik Materials Technology

Product Area Tube
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201035359

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

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Plant Location: 982 Griffin Pond Road, Clarks Summit, PA 18411
Sold To: 632580 SANDVIK DE MEXICO TLALNEPANTLA, EDO MEXICO
Customer Order No: 450960
Sandvik Order No: 21680/1
Work Order/Lot: 527588
Ship To: GAISA FORWARDING INC LAREDO TX
Certification Date: 20101013

ASTM A312-09a, ASME SA-312, ASTM A376-06, ASME SA-376, ASME Section II
2010 Edition, 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" SCH 40
Heat: 525852

Material Manufacturer: Pennsylvania Extruded Tube Co. USA

ANALYSIS %

Table with 8 columns: Element (C, Si, Mn, P, S, Cr, Ni, Fe, Mo, Cu, Al, Pb), Heat, Prod. Values for each element and heat/production.

Mechanical Tests:

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

Hardness Test Results: 79HRB, 82HRB
Hydrostatic Test (psi): 2000

Flattening Test per ASTM A999: Acceptable
Tensile Test sample width (1=Full-Size 2=1/2" Strip): 2
This Material complies with DFARS 252.225-7014 & Alternate 1
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 11 dated Nov 09, 2009. Quality system
has been approved to ISO 9001:2008.

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,
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 R31) (32) (US36541)