



Sandvik Materials Technology

Product Area Tube
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www.smt.sandvik.com/nafta

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Sold To: 632580
SANDVIK DE MEXICO
TLALNEPANTLA, EDO MEXICO
Customer Order No: 450881
Sandvik Order No: 79785/1
Work Order/Lot: 346407

Ship To:
GAISA FORWARDING INC
LAREDO TX
Certification Date: 20090720

ASTM A511-08, ASTM A269-08, ASTM A213-08, ASME SA-213, ASME Section II
2007 Edition, 2008 Addenda, NACE MR0175 / ISO 15156
First edition 2003-12-15, (Austenitic)

Cold Finished BRIGHT ANNEALED Seamless Tube
Type MT 304/MT 304L/TP304/TP304L

Size: .250" X .035"
Heat: 521703

Material Manufacturer: Sandvik MT, Canada
ANALYSIS %

Table with 8 columns: Element (C, Si, Mn, P, S, Cr, Ni), Heat, Prod, Fe, Co, Al, Pb. Values include percentages and specific heat/production numbers.

Mechanical Tests:

Table with 5 main columns: Yield Strength (0.2%, 1.0%), Tensile Strength (psi, MPa), Elongation (E2, E10, E4d, E5d), Reduction Of Area (%). Values include 37000, 255.2, 84000, 579.3, 58, N/A, N/A, N/A, N/A.

Hardness Test Results: 72HRB, 72HRB

Flare Test per ASTM A1016, No. samples: 2 Result: Acceptable
Flattening Test per ASTM A1016: Acceptable
Tensile Test sample width (1=Full-Size 2=1/2" Strip): 1
This Material complies with DFARS 252.225-7014 & Alternate 1
Country Of Origin: Canada
This Material does not comply 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 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 eddy current tested in accordance with ASTM A450, ASTM A1016 and is acceptable.
Material has been manufactured/supplied in accordance with Sandvik Materials Technology Quality Manual 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.B (formerly EN 10204 3.1.B)

Stamp: LEASA ANAHUAC Y CIA S.A. DE C.V. CONTROL DE CALIDAD. Includes handwritten date 13/Enc/2010 and signature.

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 (NADCSTKBA R27) (10) CF (KPT)