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Sandvik Materials Technology

MATERIAL CERTIFICATE

Product Area Tube

P.O. Box 1220, Scranton, PA, PA US 185011220, Ph: 570-585-7500

Cert#: 201321451

55-T1-5-020-20

Page 1

Plant Location: 982 Griffin Pond Road, Clarks Summit, PA 18411

Ship To: Sold To: 8442

EDMONTON VALVE & FITTING INC SWAGELOK MANUFACTURING COMPANY

INDEPENDENCE OH

EDMONTON AB Customer Order No: 20130613 Certification Date: X13707

Sandvik Order No: 126651/1 Work Order/Lot: 175512

ASTM A213-10a, ASTM A269-10, ASME SA213, ASME Section II 2010 Edition, 2011 Addenda

Cold Finished BRIGHT ANNEALED Seamless Tube

Type TP316/TP316L (UNS S31600/S31603) Size: .063" X .020"

Heat: 534779

ANALYSIS %

C Si Mn Çr .37 .028 .008 1.69 17.18 13.10 .018 Heat 13.08 .37 1.64 .029 .005 17.18 Prod .022 Cu A1Mo

2.52 Heat 2.52 Prod

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

Country Of Origin: Germany

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.

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-Standard Products Revision 13 dated November 20, 2012. Quality system has been approved to ISO 9001:2008. (Cert# GBG0000502,30AU13) Certificate produced in accordance with EN 10204 3.1 (formerly EN 10204 3.1.B)
Melt Method: Electric Furnace
This is to certify that the certains of this certificate.

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 Stephen Knight, Quality Engr. 10 (SD213/269XHT R24) (10) (UJ6492)