



Sandvik Materials Technology

MATERIAL CERTIFICATE

Product Area Tube

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

Cert#: 201327904

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: 8442	Ship To:
SWAGELOK MANUFACTURING COMPANY	EDMONTON VALVE & FITTING INC
INDEPENDENCE OH	EDMONTON AB
Customer Order No: X25744	Certification Date: 20130808
Sandvik Order No: 233590/1	
Work Order/Lot: 175854	

SS-T1-S-020-20

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" OD X .022" ID  
Heat: 535144

ANALYSIS %

	C	Si	Mn	P	S	Cr	Ni
Heat	.019	.40	1.57	.028	.008	17.16	13.07
Prod	.019	.41	1.58	.030	.008	17.32	13.18
	Fe	Mo	Cu	Al	Pb		
Heat		2.53					
Prod		2.56					

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 14 dated July 30, 2013. 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 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) (HV5647)