



Sandvik Materials Technology Canada Tube Production Unit

425 McCartney Street
Arnprior, Ontario, Canada K7S 3P3
(613) 623-6501 Fax:(613) 623-7243

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Certified Material Test Report

Customer

SANDVIK MATERIALS TECH. NAFTA
982 GRIFFIN POND ROAD
CLARKS SUMMIT, PA 18411
US

Ship To

GRANDE PRAIRIE VALVE FITTING
#100, 11025 89 AVENUE
GRAND PRAIRIE, AB T8V 5B9
CANADA

Sales Order

20720

Item Number

16007

Mill Order

00053007

Customer Order and Item

00043207 1

Specifications

ASTM A213-13/A269-13/AS11-12 ASME SA213-13 ED EAW
SWINST316-R25 NACE MR0175

Tag

GRANDE PRAIRIE VALVE & FITTING X87314
GRAND PRAIRIE ABT8V 5B9
PRODUCT ID : D2PAH0094
Location

Material

TP316/TP316L MT316/MT316L
Seamless Stainless Steel Tubing
1/4" Avg OD X .035" Avg Wall
6.35 mm Avg OD X .89 mm Avg Wall

<u>Work Order/ Heat No</u>	<u>No Of Pieces</u>	<u>Total Length</u>	<u>UOM</u>	<u>Net Total Weight</u>	<u>UOM</u>
381818 540809	440	8,800.00	FT	325.98	KG
381819 540809	110	2,200.00	FT	81.50	KG

Heat Analysis

Heat No	C	Si	Mn	P	S	Cr	Ni	Mo	Co	Cu	N	Ti	Al
540809	.020	.37	1.93	.029	.009	17.25	13.15	2.56	.089	.29	.036	.003	.003
Melt Source: Sandvik, Sweden					Melt Method: Electric Furnace					Melt Process: AOD			

Product Analysis

540809	.023	.38	1.92	.028	.008	17.23	13.09	2.55	.090	.29	.044	.003	.003
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Mechanical Tests

Work Order	ASTM E8 0.2%YS(205MI 30 ksi min. KSI	ASTM E8 ULT. (515 MI 75 ksi min. KSI	ASTM E8 %EL 2" (35MI test	HARDNESS RB 80MAX HRBW
381818	39	85	60	78 78
381819	42	88	56	78 80

Additional Tests

ASTM A1016 FLARE - Acceptable
ASTM A1016 FLATTENING - Acceptable
Positive Material Identification (PMI) - Acceptable.



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SO: 20720
MO: 00053007

Eddy Current Examination - Acceptable
Visual Surface Condition - Acceptable
Capability of Passing ASTM A262E
Seamless, Cold Finished, Bright (Solution) Annealed & Atmospheric Quenched
No weld repair has been performed on this material
Material is free from radioactive contamination
Traceability is through Work Order number linemarked on tubes
Country of origin: Canada
This material has not come in contact with mercury or mercury-containing compounds
This certification affirms that the contents of the report are correct and accurate and that all test results and operations performed by Sandvik Materials Technology Canada or our subcontractors are in compliance with the material specification
The material is manufactured according to a quality system, approved and registered to ISO 9001:2008 certificate number GBG0000511 which expires November 30, 2016

Certified Material Test Report acceptable to EN 10204 3.1

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This certificate is produced electronically and is valid without signature

Quality Assurance: Danasekaran Subban Chettiar, Quality Assurance Manager
Clare Kavanagh, Certificate

Revisions 02/02/15