MXAD

MATERIAL CERTIFICATE

Page 1 of 1 No. 200451333

Sandvik Materials Technology, Tubular Products Area P.O. Box 1220, Scranton, PA USA 18501, Ph: 570-585-7500

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

Sold To: 632580 Ship To:

SANDVIK DE MEXICO

GAISA FORWARDING INC

TLALNEPANTLA, EDO MEXICO

LAREDO TX

Customer Order No: 450521

Certification Date: 20040211

Authorized Representative

Sandvik Order No: 24187/6 Work Order/Lot: 308091

3.0TM 3.040 0.01 3.0TM 3.040 0.01

ASTM A213-03b, ASTM A269-02a, ASTM A511-96, ASME SA-213

ASME Section II, 2001 Edition; 2003 Addenda

Cold Finished BRIGHT ANNEALED Seamless Tube

Type MT 316/MT 316L/TP316/TP316L Size: .500" X .065"

Heat: 459570

ANALYSIS %

C Si Mn P Cr Νi 1.69 1.68 .44 .020 .030 Heat .008 17.30 13.11 Prod .020 .006 17.34 .44 .031 13.11 Fe Pb

Fe Mo Al Heat 2.52 .005 Prod 2.52 .004

Mechanical Tests:

Yield Strength Tensile Elongation Reduction 0.2% 1.0% Strength in % Of Area psi MPa psi MPa E2" E10" E4d E5d % 39000 269.0 N/A 83000 572.4 64 N/A N/A N/A N/A

Hardness Test Results: 76HRB, 75HRB

Flare Test per ASTM A450,

No. samples: 2 Result: Acceptable

Flattening Test per ASTM A450: Acceptable

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

Country Of Origin: Canada

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 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 6 dated October 9, 2003. Quality system has been approved to ISO 9001:2000.

Certificate produced in accordance with EN 10204 (DIN 50049)

3.1.B.

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.

Kurt Revak, Quality Specialist
10 (NADCSTKBA R13) (10) CF (CFN)