```
Plant Location: 982 Griffin Pond Road, Clarks Summit, PA 18411
Sold To:
                                       Ship To:
 SANDVIK DE MEXICO
                                        GAISA FORWARDING INC
 TLALNEPANTLA, EDO MEXICO
                                        LAREDO TX
Customer Order No: 450494
                                       Certification Date: 20030909
Sandvik Order No: 11488/26
Work Order/Lot: 305103
ASTM A213-01a, ASTM A269-02, 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
                                                    .500" X .065"
                                             Size:
                                             Heat: 458741
ANALYSIS %
      C
               Si
                                                                  Ni
                          Mn
                                                        Cr
Heat .018 .46
Prod .017 .45
                         1.70
1.69
                                   .029
                                                        17.27
                                            .008
                                                                  13.10
                                    .028
                                              .006
                                                       17.29
                                                                  13.07
                        Al
      Fe
               Mo
                                    Pb
          2.61 .003
2.61 .003
Heat
Prod
Mechanical Tests:
                            Tensile
    Yield Strength
                                                 Elongation Reduction
                           Strength
  0.2%
            1.0%
                                                    in %
                                                                  Of Area
                            psi MPa E2" E10" E4d E5d
82000 $65.5 64 N/A N/A N/A
    MPa psi MPa psi
0 269.0 N/A 82000
psi
                                                                     ક્ષ
39000
                                                                    N/A
Hardness Test Results: 75HRB, 73HRB
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 5 dated February 6, 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
                                         Authorized Representative
10 (NADCSTKBA R12) (10) CF (CFN)
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MATERIAL CERTIFICATE

Sandvik Materials Technology
P.O. Box 1220, Scranton, PA 18501 PH. (570) 585-7500

OPADEV0017

MXBG

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No. 200331937

Dec 15, 2003

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