

CERTIFICATE

No. A/03-185338 Rev 00 Date 2003-03-13 Page 1/2

INSPECTION CERTIFICATE acc to EN 10 204 3.1.B

INSPECTION STAMP OA-TUBE

VIA GUSTAVO BAZ 352 COL.LA LOMA TLALNEPANTLA EDO.DE MEXICO CP 54060 MEXICO

SANDVIK DE MEXICO S.A. DE C.V.

Customer References

Customer order 2003-02-13

Order No. ABSMT No. 300-10741

3R65

Subs No. 80304 C.Code 68

Kq

173.0

173.0

Elongation

 \mathbf{cr}

16.76

2"

58

58

59

ABSMT Dispatch note 40915/54

560-00991

SEAMLESS STAINLESS COLD FINISHED

Steel/material Designations Sandvik

Sandvik References

TP316/TP316L

M

104.53

104.53

Mo

2.03

Νi

11.20

PIPE

Material description

Steel making process Electric furnace

Technical requirements

ASTM A-312-01, ASME SA-312-ED-01 AD-02

NACE MR 01-75

Heat 458250

Lot 36964

which have been hydrostatically tested.

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	OF DELIVE	
It	Product	designation

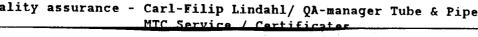


458250

Leak test: Eddy current test acc to Practice E426 with drilled hole as reference standard on all tubes, with the exception of those lots







Mn

1.67

Heat

Lot

Total

Tensile strength

458250 36964

P

N/mm2

Rm

601

606

593

0.030

Pieces

17

17

0.009

Tensile test at room temperature

Yield strength

N/mm2 Rp0.2

Si

0.36

0.062

N

319 287

01 TST-316L-3/4-SCH40

26.67 X 2.87

C

0.011

0.088

Co

345



Lot

36964

CERTIFICATE

No. A/03-185338 Rev 00 Date

2003-03-13 Page 2/2

Hardness test Min Max HRB HRB

74.0

80.0

Following controls/tests have been satisfactorily performed: - Flattening test

- Intergranular corrosion test acc to ASTM A-262 PR.E - Material Identification

- Visual inspection and dimensional control.

Heat Treatment: Solution annealed and quenched.

The number of tests are based on the size of the manufacturing lot before cutting to finished lengths.

The delivered products comply with the specifications and requirements of the order.

The material is manufactured according to a Quality system, approved and registered to ISO 9002.

The certificate is produced with EDP and valid without signature