

## CERTIFICATE

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INSPECTION CERTIFICATE acc to EN 10 204 3.1.B

INSPECTION STAMP

560-00991

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

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

QA-TUBE		C1 34000	HEXICO	
Customer References		Sandvik References		
	Customer	Order No.	Subs No.	
		11	00005	

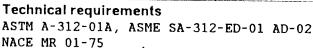
Customer
order
2003-11-13

**ABSMT** Dispatch note 05041/54 80335 ABSMT No. C.Code 300-37092 68

Material description SEAMLESS STAINLESS COLD FINISHED PIPE

Steel/material Designations Sandvik 3R65 TP316/TP316L

## Steel making process Electric furnace



C

N

0.013

TEST RESULTS

Heat

Lot

46382

500762

## EXTENT OF DELIVERY

Si

0.39

It Product designation Heat

Mn

1.63

08 TST-316L-1/2-SCH40 21.34 X 2.77

500762 46382

P

0.029

Lot Pieces 31 Total . 31

5

0.008

245.0

Cr

16.75

Kg

245.0

200.32

Мо

2.03

Ni

11.29

M

200.32

500762 0.063 Tensile test at room temperature

Chemical composition (weight%)

Yield strength N/mm2

Tensile strength Elongation N/mm2 Rp0.2 2" Rm 343 638 50 332 639 49 333 629

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

Quality assurance - Carl-Filip Lindahl/ QA-manager Tube & Pipe



Lot

46382

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Hardness test Min Max HRB HRB

83.0

Following controls/tests have been satisfactorily performed:

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

- Material Identification.

Heat Treatment:

- Visual inspection and dimensional control.

Solution annealed and quenched. The number of tests are based on the size of the manufacturing lot

before cutting to finished lengths.

77.0

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 9001.

The certificate is produced with EDP and valid without signature