



CERTIFICATE

No. A/09-396599 Rev 00
Date 2009-08-26 Page 1/2

INSPECTION CERTIFICATE acc to
EN 10 204 3.1

SANDVIK DE MEXICO S.A. DE C.V.
VIA GUSTAVO BAZ 352
COL. LA LOMA
TLALNEPANTLA EDO. DE MEXICO
CP 54060 MEXICO

INSPECTION STAMP
QA-TUBE

Customer References

STOCK

560-00991 SANDMEX

Sandvik References

Customer order	Order No.	Subs No.	ABSMT Dispatch note
2009-05-28	3R65	81097	31074/54
	ABSMT No.	C.Code	
	300-93516	68	

Material description

SEAMLESS STAINLESS HOT FINISHED
PIPE

Steel/material Designations

Sandvik	AISI
3R65	TP316/TP316L
AFNOR	
Z6CND17-11/Z2CND17-12	

Steel making process
Electric furnace

Technical requirements

ASTM A-312-08, ASME SA-312-ED-07 AD-08
NACE MR0175/ISO 15156-3:2003
NFA 49-117-09/85, tolerances and leak test acc. to ASTM A312/A999

PLEASA ANAHUAC Y CIAS. S.A. DE C.V.
CONTROL DE CALIDAD
FECHA 26 Ene 2010
C0000105
FIRMA Enrique Ruiz

EXTENT OF DELIVERY

It	Product designation	Heat	Lot	Pieces	Kg	M
23	TST-E-316L-3-SCH40 88.90 X 5.49	522465	50053	7	503.0	44.13
				Total	7	503.0 44.13

TEST RESULTS

Chemical composition (weight%)

Heat	C	Si	Mn	P	S	Cr	Ni	Mo
522465	0.014	0.39	1.70	0.031	0.011	16.79	11.34	2.06
522465	N	0.060						

Chemical composition, product (weight%)

Heat	C	Si	Mn	P	S	Cr	Ni	Mo
522465	0.013	0.39	1.71	0.030	0.009	16.83	11.36	2.06
522465	N	0.055						

Tensile test at room temperature

Lot	Yield strength	Tensile strength	Elongation	
	MPa	MPa	%	%
50053	Rp0.2 267	Rm 615	A 48	2" 47

Quality assurance - Per Eriksson/ QA-manager Tube & Pipe
MTC Service / Certificates



CERTIFICATE

No. A/09-396599 Rev 00
Date 2009-08-26 Page 2/2

Hardness test

	Min	Max
Lot	HRB	HRB
50053	75.0	77.0

Following controls/tests have been satisfactorily performed:

- Flattening test.
- Ring expansion test
- Flaring test
- PMI-test.
- Intergranular corrosion test acc to ASTM A-262 PR.E
- Leak test: Eddy current test acc to ASME SA-999.
- 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 9001.

The certificate is produced with EDP and valid without signature.