



CERTIFICATE EN 10204/3.1.B.

BUYER SANDVIK ESPANOLA S A APARTADO 92TALE 16155 COSLADA MADRID SPANIEN		DATE 030415	CERTIFICATE NO NO308442 / 1												
		MANUFACTURERS ORDER NO 2302456	ITEM 10												
		BUYERS ORDER NO 380061015	SHIPMENT NO 758815												
PRODUCT FORM LONGITUDINALLY WELDED STAINLESS STEEL TUBES, BASE MATERIAL EN 10028-7, WELD OUTSIDE GROUND, PICKLED, PLAIN ENDS, IN MILL LENGTHS, HEAT TREATMENT 1100 C QUENCHED IN WATER															
SPECIFICATION EN 10217-7 Tc1			TOLERANCES SS EN ISO 1127 D3 T3												
GRADE EN 1.4307			MANUFACTURERS GRADE 4307T												
MANUFACTURERS MARK AST-N															
TUBE MARKING AST-N: EN 1.4307/TP304L; EN 10217-7; W2A; TC1; WLD; MAR-N1; 20,00 X 1,80; 4211271;															
EXTENT OF DELIVERY															
Pcs 364	METER 2184,00	DIMENSION 20,00 1.50		HEAT NO 4211271											
TEST NO (A)															
CHEMICAL COMPOSITION															
HEAT ANALYSIS	C 0,029	SI 0,36	MN 1,01	P 0,031	S 0,003	CR 18,27	NI 8,53								
TEST RESULT															
	Temp	RP0,2 MPa	RP1,0 MPa	RM MPa	A5 %										
		180	215	470 570	40										
A 01L	20	297	338	648	56										
A 02L	20	304	339	642	58										
A 03L	20	296	336	640	57										
FLARING TEST EN 10234 EDDY CURRENT TEST EN 10246-3 E1H / EN 10246-2 MATERIAL IDENTIFICATION TEST VISUAL AND DIMENSIONAL INSPECTION INTERGRANULAR CORROSION TEST EN ISO 3651-2:A Certified acc: PED (97/23/EC). TUEV Nord gruppe for pressure equipment NOB No:0048 Certificate no: 07 202 0111 Z 0019/0/H Fulfills the requirements acc.to prEN 10217-7 May 2002.															
SATISFACTORY SATISFACTORY SATISFACTORY SATISFACTORY SATISFACTORY															
Procedures and personnel approved by notified bodies. WSP/PA/EN 288/ Personnel/WLD:EN 1418 NDT:EN 473															
MELTING PROCESS QA 07 100 281		INSPECTORS STAMP E/AOD		THE REQUIREMENTS ARE FULFILLED AS STIPULATED QC-DEPT. Ejörn Zetterberg ISSUED BY Yvonne Wannestrand											