

INSPECTION CERTIFICATE acc to EN 10204 3.1

Processkontroll Items AB Box 2088 444 02 STORA HÖGA SWEDEN

INSPECTION STAMP QA-TUBE

Customer	References				ndvik R				
		-	Custome					_	atch note
752859		C	order	42	8580	6030	76 130	93/54	
		2	2016-01	-14    AB	SMT No.	C.Co	de		
				30	0-40640	15			
003-0099	01 ITEMS								
	description			11		erial :	Designat		
SEAMLESS STAINLESS COLD FINISHED					Sandvik AISI				
HYDRAULIC TUBING					3R60 TP316/TP316				316L
					-				
				+・	4435				
		-							
	<b>aking proces</b> c furnace	5							
BIECCLIC	Luinace								
Technica	al requirement	nts							
	213-15A AW, 2		A-213-E	D-15 AW	, ASTM .	A-269-	14		
NACE MRC	)175/ISO 151	56-3:20	09						
	)175/ISO 151 23/EC EN 102								
	23/EC EN 102								
PED 97/2	23/EC EN 102								
PED 97/2 HRB MAX	23/EC EN 102 80 DF DELIVERY	16-5 TC	21	Teet	Tot				
PED 97/2 HRB MAX EXTENT C It	23/EC EN 102 80 DF DELIVERY Product des	16-5 TC	21				Kg 1 o		M 26.00
PED 97/2 HRB MAX EXTENT C It	23/EC EN 102 80 DF DELIVERY Product des THT-3R60-12	16-5 TC signati -2	21		<b>Lot</b> 50871		-		<b>M</b> 36.00
PED 97/2 HRB MAX EXTENT C It	23/EC EN 102 80 DF DELIVERY Product des	16-5 TC signati -2	21				-		
PED 97/2 HRB MAX EXTENT C It	23/EC EN 102 80 DF DELIVERY Product des THT-3R60-12	16-5 TC signati -2	21			6	18.	0	
PED 97/2 HRB MAX EXTENT C It 02	23/EC EN 102 80 <b>DF DELIVERY</b> <b>Product des</b> THT-3R60-12 12.00 X 2.00	16-5 TC signati -2	21		50871	6	18.	0	36.00
PED 97/2 HRB MAX EXTENT C It 02 KEY TO H Heat Cod	23/EC EN 102 80 <b>F DELIVERY</b> <b>Product des</b> THT-3R60-12 12.00 X 2.00 HEAT le Heat	16-5 TC signati -2 0 No.	21		50871	6	18.	0	36.00
PED 97/2 HRB MAX EXTENT C It 02 KEY TO E	23/EC EN 102 80 <b>DF DELIVERY</b> <b>Product des</b> THT-3R60-12 12.00 X 2.00 <b>HEAT</b>	16-5 TC signati -2 0 No.	21		50871	6	18.	0	36.00
PED 97/2 HRB MAX EXTENT C It 02 KEY TO H Heat Cod 048197 TEST RES	23/EC EN 102 80 DF DELIVERY Product des THT-3R60-12 12.00 X 2.00 HEAT de Heat 5430 SULTS	16-5 TC signati -2 0 No. 89	Lon		50871	6	18.	0	36.00
PED 97/2 HRB MAX EXTENT C It 02 KEY TO H Heat Cod 048197 TEST RES Chemical	23/EC EN 102 80 <b>DF DELIVERY</b> <b>Product des</b> THT-3R60-12 12.00 X 2.00 HEAT de Heat 5430 SULTS Composition	16-5 TC signati -2 0 No. 89 n (weig	Jon		50871	6	18.	0	36.00
PED 97/2 HRB MAX EXTENT C It 02 KEY TO H Heat Cod 048197 TEST RES Chemical Heat	23/EC EN 102 80 <b>DF DELIVERY</b> <b>Product des</b> THT-3R60-12 12.00 X 2.00 HEAT de Heat 5430 SULTS C ST	16-5 TC signati -2 0 No. 89 n (weig Si	Jht%)	048197 ₽	50871 Total	6 6 <b>5</b>	18. 18. <b>Cr</b>	0 0 <b>Ni</b>	36.00 36.00 <b>Mo</b>
PED 97/2 HRB MAX EXTENT C It 02 KEY TO H Heat Cod 048197 TEST RES Chemical	23/EC EN 102 80 <b>DF DELIVERY</b> <b>Product des</b> THT-3R60-12 12.00 X 2.00 <b>HEAT</b> <b>Ie Heat</b> 5430 <b>SULTS</b> <b>L composition</b> <b>C</b> 0.021 0	16-5 TC signati -2 0 No. 89 n (weig	Jht%)	048197	50871 Total	6 6 <b>5</b>	18.	0 0 <b>Ni</b>	36.00 36.00 <b>Mo</b>
PED 97/2 HRB MAX EXTENT C It 02 KEY TO H Heat Cod 048197 TEST RES Chemical Heat 048197	23/EC EN 102 80 <b>DF DELIVERY</b> <b>Product des</b> THT-3R60-12 12.00 X 2.00 <b>HEAT</b> <b>Ie Heat</b> 5430 <b>SULTS</b> <b>C S</b> 0.021 0 <b>N</b>	16-5 TC signati -2 0 No. 89 n (weig Si	Jht%)	048197 ₽	50871 Total	6 6 <b>5</b>	18. 18. <b>Cr</b>	0 0 <b>Ni</b>	36.00 36.00 <b>Mo</b>
PED 97/2 HRB MAX EXTENT C It 02 KEY TO H Heat Cod 048197 TEST RES Chemical Heat 048197	23/EC EN 102 80 <b>DF DELIVERY</b> <b>Product des</b> THT-3R60-12 12.00 X 2.00 <b>HEAT</b> <b>Ie Heat</b> 5430 <b>SULTS</b> <b>L composition</b> <b>C</b> 0.021 0	16-5 TC signati -2 0 No. 89 n (weig Si	Jht%)	048197 ₽	50871 Total	6 6 <b>5</b>	18. 18. <b>Cr</b>	0 0 <b>Ni</b>	36.00 36.00 <b>Mo</b>
PED 97/2 HRB MAX EXTENT C It 02 KEY TO H Heat Cod 048197 TEST RES Chemical Heat 048197 048197 Chemical	23/EC EN 102 80 <b>DF DELIVERY</b> <b>Product des</b> THT-3R60-12 12.00 X 2.00 <b>HEAT</b> <b>Ie Heat</b> 5430 <b>SULTS</b> <b>C S</b> 0.021 0 <b>N</b>	16-5 TC signati -2 0 No. 89 n (weig si .40	21 Lon Jht%) Mn 1.75	048197 <b>P</b> 0.0	50871 Total	6 6 <b>5</b>	18. 18. <b>Cr</b>	0 0 <b>Ni</b>	36.00 36.00 <b>Mo</b>
PED 97/2 HRB MAX EXTENT C It 02 KEY TO H Heat Cod 048197 TEST RES Chemical Heat 048197 048197	23/EC EN 102 80 <b>DF DELIVERY</b> <b>Product des</b> THT-3R60-12 12.00 X 2.00 <b>HEAT</b> <b>de Heat</b> 5430 <b>SULTS</b> <b>C SULTS</b> 0.021 0 <b>N</b> 0.036 <b>C SULTS</b> <b>C SULTS</b> <b>C</b>	16-5 TC signati -2 0 No. 89 n (weig si .40	21 Lon Jht%) Mn 1.75	048197 <b>P</b> 0.0	50871 Total 32 0	6 6 <b>5</b>	18. 18. <b>Cr</b>	0 0 <b>Ni</b>	36.00 36.00 Mo 2.54

Ν 048197 0.032

Quality assurance - Lars-Åke Bergqvist / QA-manager MTC Service / Certificates

AB SANDVIK MATERIALS TECHNOLOGY Reg No. 556234-6832 VAT No. SE663000-060901 SE-81181 SANDVIKEN SWEDEN www.smt.sandvik.com mtc\_service.smt@sandvik.com



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Tensile test	Yield s	temperature strength MPa	Tensile strength MPa	Elon %	gation %	
<b>Lot</b> 50871		Rp1.0	<b>Rm</b> 560	<b>A</b> 53	2"	
Hardness test						
<b>Lot</b> 50871	<b>Min</b> HRB 72	<b>Max</b> HRB 74				
<ul> <li>Flattening</li> <li>Flaring tes</li> <li>PMI-test.</li> <li>Intergranul</li> </ul>	test. st lar corro Eddy cur	osion test ac	n satisfactorily per c to ASTM A-262 PR.E c to EN 10246-2, ASM al control.	1		
Heat Treatmen Solution anne		a temperatur	e of Min 1040° C and	l quen	ched.	
	5L CFA SM	ILS NDE 12.00	-269 EN 10216-5 TC1 X 2.00 MM HT 543089			
The raw mater	rial is f	free from rad	ioactive contaminati	.on.		
Material free	e from me	ercury contam	ination.			
Approved acc. Pressure Equi TUEV NORD; no	lpment Di	rective (97/	—	to		
The number of before cuttin			the size of the manu s.	ıfactu	ring lot	
The delivered requirements			h the specifications	and		
The material approved and			rding to a Quality s 01:2008.	system	,	
Certificate m prior writter Unauthorized introduction may be punish Certificate m specified in will be prose	may not b approva alterati of false nable by may be co Section ecuted to	be modified of al of AB Sand ons to the In e, fictitious fines, imprin opied only in 6 of EN 102 o the fullest	contents of this Ins r revised in any way vik Materials Techno nspection Certificat or fraudulent state sonment, or both. Th the manner and for 04:2004. Contraventi extent of applicabl	y with ology. e, in ements nis In the p on of e law	out the cluding or entries, spection urposes this notice	
The certifica	ate is pr	coduced with :	EDP and valid withou	t sig	nature.	