

INSPECTION CERTIFICATE acc to EN 10204 3.1

Processkontroll Items AB Box 2088 444 02 STORA H@GA SWEDEN

INSPECTION STAMP QA-TUBE

Customer References	Customer		Subs No.	ABSMT Dispatch note		
756379/Holmgren	order 2018-05-03	512458 ABSMT No. 300-80464	C.Code	21040/54		
003-00991 ITEMS						
Material description	Steel/material Designations					
SEAMLESS STAINLESS COLD	FINISHED	Sandvik		AISI		
INSTRUMENTATION TUBING		3R60		TP316/TP316L		
		EN no				
		1.4435				
Steel making process						
Electric furnace						
Technical requirements ASTM A-632-04						
NACE MR0175/ISO 15156-3:	7945:2015					
PED 2014/68/EU EN 10216-	5 TC1					
HRB MAX 80						

EXTENT O	F DELIVI	ERY								
It Product designation				Heat	Lot	Pieces	Kg	M	М	
01 THT-3R60-1.59-0.36		048615 95806		1	1.0	б.	6.00			
1.59 X .36										
					Total	1	1.0	6.	00	
KEY TO HEAT							KEY TO LO	T		
Heat Code	e I	Heat No.					Lot Code	Lot No.		
048615	ļ	549359					95806	0002003	045	
TEST RES	ULTS									
Chemical	composi	ition (wei	ght%)							
Heat	C	Si	Mn	Р		S	Cr	Ni	Mo	
048615	0.018	0.43	1.65	0.0	31	0.009	17.34	13.07	2.62	
	N									
048615	0.042									

## Quality assurance - Sofia Åkesson / Q-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



<b>Heat</b> 048615	C	<b>Si</b> 0.44	oduct (we Mn 1.62	<b>P</b> 0.032		<b>Cr</b> 17.27		<b>Mo</b> 2.62
048615								
Tensile Lot 95806	MPa Rp(	eld stre	ngth	<b>Tensile MPa Rm</b> 541	strength	<b>Elong</b> % <b>A</b> 55	% 2"	
Hardness Lot 95806	test Min HRN 79	B	<b>Max</b> HRB 80					
- Flatte - Flarin - 100% F - Interg - Leak t	ning test g test MI-test. ranular o est: Eddy	t. corrosion y current	n test ac t test ac	n satisfac c to ASTM c to EN 10 al control	A-262 PR. )246-2		1:	
Heat Tre Solution	atment: annealed	d and que	enched.					
	3R60 ASTN			TC1 EN 1.4 LOT 00020			CFA SML 1	.59 X O.
The raw	material	is free	from rad	lioactive o	contaminat	ion.		
Material	free fro	om mercui	ry contam	ination.				
Pressure		nt Direct	tive (201	0 and cert 4/68/EU, A 0045.			by	
	er of tea utting to			the size o s.	of the man	ufactur	ing lot	
	vered pro ents of t			h the spec	cification	is and		
	rial is r and reg			ording to a 01:2008.	a Quality	system,		

## CERTIFICATE



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TEST RESULTS TRANSFERRED FROM CERTIFICATE NO 0002003045