

A02/Z03 INSPECTION CERTIFICATE acc to EN 10204 3.1

INSPECTION STAMP QA-TUBE **A06** PROCESSKONTROLL ITEMS AB BOX 2088 444 02 STORA HÖGA SWEDEN

Customer References A07		Sandvik Ref	A08		
761328	Customer	Order No.	Subs No.	SMT Dispatch	note
	order	572454	699705	42858/54	
	2021-06-24	SMT No.	C.Code		
		300-33421	15		
003-00991 ITEMS -W					
Material description	B01/B04	Steel/mater	ial Desig	nations	в02
SEAMLESS STAINLESS COLD FINI	SHED	Sandvik		AISI	
HYDRAULIC TUBING		3R60		TP316/TP316L	
		EN no			
		1.4435			
Metallurgical process	C70				
Electric furnace					

Technical requirements

ASTM A-213-19 AW, ASME SA-213-ED-19 AW, ASTM A-269-15A NACE MR0175/ISO 15156-3:-2015, NACE MR0103/ISO 17945-1:-2015 PED 2014/68/EU EN 10216-5 TC1 HRB MAX 80

Product								
	designatio	on I	leat	Lot	Pieces	Kg	м	
HT-3R60-	6-1	ļ	561943	38851	100	75.0	600.0	0
.00 X 1.	00							
				Total	100	75.0	600.0	0
LTS								
composit	ion (weigh	nt%)						
C	Si	Mn	Р		S	Cr	Ni	Mo
0.020	0.37	1.63	0.03	31 (0.010	17.16	13.12	2.63
N								
0.040								
composit	ion, produ	uct (we:	ight%)					
C	Si	Mn	Р		S	Cr	Ni	Mo
0.026	0.37	1.62	0.03	32 (0.006	17.13	13.06	2.62
N								
0.039								
	LTS Composit C 0.020 N 0.040 Composit C 0.026 N	composition (weight C si 0.020 0.37 N 0.040 composition, production c C Si 0.026 0.37 N 0.37	LTS composition (weight%) C Si Mn 0.020 0.37 1.63 N 0.040 composition, product (weight) C Si Mn 0.026 0.37 1.62 N	LTS composition (weight%) C Si Mn P 0.020 0.37 1.63 0.03 N 0.040 composition, product (weight%) C Si Mn P 0.026 0.37 1.62 0.03 N	Total LTS composition (weight%) C Si Mn P 0.020 0.37 1.63 0.031 (N 0.040 composition, product (weight%) C Si Mn P 0.026 0.37 1.62 0.032 (N	Total 100 LTS composition (weight%) C Si Mn P S 0.020 0.37 1.63 0.031 0.010 N 0.040 composition, product (weight%) C Si Mn P S 0.026 0.37 1.62 0.032 0.006 N	Total 100 75.0 LTS composition (weight%) C Si Mn P S Cr 0.020 0.37 1.63 0.031 0.010 17.16 N 0.040 composition, product (weight%) C Si Mn P S Cr 0.026 0.37 1.62 0.032 0.006 17.13 N	Total 100 75.0 600.0 LTS composition (weight%) C Si Mn P S Cr Ni 0.020 0.37 1.63 0.031 0.010 17.16 13.12 N 0.040 composition, product (weight%) C Si Mn P S Cr Ni 0.026 0.37 1.62 0.032 0.006 17.13 13.06 N

Quality assurance - Sofia Åkesson / Q-Manager MTC Service / Certificates A05/Z02

B03





Tensile test		-						
	Yield st	-	Tensile strength		ation			
Lot	MPA M Rp0.2 R	IPa	MPa Rm	% A	% 4D			
38851	-	23	K III 569	А 58	4 D 52			
50051	207 3	23	505	50	54			
Hardness test	2							
	Min	Max						
Lot	HRB	HRB						
38851	76	79						
- Flattening	<pre>Following controls/tests have been satisfactorily performed: - Flattening test Flaring test - 100% DML-test</pre>							
- Intergranular corrosion test acc to ASTM A-262 PR.E and EN ISO 3651-2A								
- Leak test: Eddy current test acc to EN ISO 10893-1, ASME SA-1016. - Visual inspection and dimensional control.								
Heat Treatment: Solution annealed at a temperature of Min 1040° C and quenched.								
Marking: SANDVIK 3R60 ASTM A213/A269 ASME SA213 COLD EN10216-5 TC1 AW EN 1.4435 TP316/3 16L CFA SML NDE 6.00 X 1.00 MM HT 561943 SS LOT 38851 MADE IN SWEDEN *QA-TUBE*								
The raw material is free from radioactive contamination.								
Material free from mercury contamination.								
No welding or weld repair.								
Approved acc. AD 2000-Merkblatt W0 and certified acc. to Pressure Equipment Directive (2014/68/EU, Annex 1 para 4.3) by TUEV NORD; notified body, reg.no. 0045.								
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 9001:2015.								
No unauthorized alterations. The contents of this Inspection Certificate may not be modified or revised in any way without the prior written approval of Sandvik Materials Technology. Unauthorized alterations to the Inspection Certificate, including introduction of false, fictitious or fraudulent statements or entries, may be punishable by fines, imprisonment, or both. This Inspection Certificate may be copied only in the manner and for the purposes specified in Section 6 of EN 10204:2004. Contravention of this notice will be prosecuted to the fullest extent of applicable law.								
The certificate is produced with EDP and valid without signature.								

