

Scope of the approval – Manufacturer of material in accordance with PER 2016/1105, Schedule 2, Part 4, Para. 31 (8)											Annex to certificate no. PER-0168-QS-M 3277395/2023/MUC-01 von / dated 2023-04-18					
Name:T.T.I TUBACEX TUBOS INOXIDABLES, S.A.U.Manufacturer:Street:Tres Cruces, 8City:ES-01400 Llodio (Alava)								r		Date: rev. 0 2023-04-18		Page 1 of 2	Compe	etent Body of TUV SUD BABT Unlimited		
No.	Material Designation Material Grade		Material Specification		Description Product		Dime Thickness [mm]		Diameter		eight	Requirements Technical Rules		Report no. C-8103654350-23 dated 2023-01-16		
		Spec.	No.	Code		from	to	from	to	2=kg ↓	value	Spec.	No.	Remarks		
1	2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	9a	9b	10		
01	Heat resistant steels P195GH (1.0348), P235GH (1.0345) P265GH (1.0425), 20MnNb6 (1.0471) 16Mo3 (1.5415), 8MoB5-4 (1.5450) 14MoV6-3 (1.7715), 10CrMo5-5 (1.7338), 13CrMo4-5 (1.7335), 10CrMo9-10 (1.7380), 11CrMo9-10 (1.7383), 25CrMo4 (1.7218) 20CrMoV13-5-5 (1.7779), 15NiCuMoNb5-6-4 (1.6368) 7CrWVMoNb9-6 (1.8201) 7CrMoVTiB10-10 (1.7378) X11CrMo5 (1.7362), X11CrMo9-1 (1.7386) X10CrMoVNb9-1 (1.4903) X10CrWoVNb9-1 (1.4901) X11CrMoWVNb9-1-1 (1.4905) X20CrMoV11-1 (1.4922)	EN	10216-2	b1	seamless tube	0,7	45	5	252					 *) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is mandatory. b1 = NT respectively QT b2 = QT or N b3 = QT, NT 		
02	Stainless steels 1.4307, 1.4306, 1.4311, 1.4301, 1.4541, 1.4550, 1.4335, 1.4404, 1.4401, 1.4466, 1.4571, 1.4580, 1.4429, 1.4436, 1.4435, 1.4439, 1.4563, 1.4539, 1.4547, 1.4529, 1.4558 1.4948, 1.4940, 1.4912, 1.4941, 1.4918, 1.4958, 1.4959, 1.4910, 1.4961, 1.4988, 1.4981, 1.4982	EN	10216-5	AT AT AT AT	seamless tube	0,7	45	5	252							
03	non-alloy and alloy steel with low temp. P215NL (1.0451), P255QL (1.0452), P265NL (1.0453), 26CrMo4-2 (1.7219) 11MnNi5-3 (1.6212), 13MnNi6-3 (1.6217), 12Ni14 (1.5637), X12Ni5 (1.5680) X10Ni9 (1.5682)	EN	10216-4	b2 b3	seamless tube	0,7	45	5	252					For the use of materials acc. to column 2 till 4 the regulations and limits of the respective standards have to be observed. The specific material operating conditions have to be approved by the pressure equipment manufacturer or respectively by the Approved Body in charge.		
Explanatio	AT = solution annealed NT = normalized a QT = quenched and tempered CR = temp a = material designation in column 10 b = d = dimensions acc. to technical rules e =	erature cor condition in	trolled hot former to the total technology in the technology in technology in the technology in technolo	ed (controlled ro = object in colu	olled) A = annealed AR = as rolled mn 10	d U = not	annealed	1	1	<u> </u>	1	1	1	1		
0	/ revised: 2022-02-21	weight act			Approved: 2	022-02-2	1W Sch	nock						Page 1 of 2		
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No.	Material Designation Material Grade	Material Specification		Delivery Conditio n	Description Product	Dime Thickness [mm]		Diameter		Weight 1=t 2=kg		Requirements Technical Rules		Report no. C-8103654350-23 dated 2023-01-16		
		Spec.	No.	Code		from	to	from	to	∠-kg	value	Spec.	No.	Remarks		
1	2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	9a	9b	10		
04 05*)	X2CrNiMoN22-5-3 (1.4462) X1NiCrMoCu25-20-5 (1.4539)	EN TÜVV TÜVV	10216-5 418 421	AT AT	seamless tube	0,7	24 10	5	273 168,3					*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is mandatory.		
06*)	X8CrNi19-11 (1.4908)	ΤÜVV	547	AT	seamless tube	0,7	12,5	5	65,0							
07*)	X10CrNiCuNb18-9-3 (1.4907)	ΤÜVV	550	AT	seamless tube	0,7	12,5	5	65,0							
08*)	1.4828, 1.4841, 1.4833, 1.4845, 1.4876, 1.4878	SEW	470	AT	seamless tube	0,7	45	5	252							
09*)	Stainless steels	ASTM ASTM	A 213 A 312	b	seamless tube	0,7	45	5	252					b = acc. to technical rule		
10*)	P9, P11, P12, P22, P91	ASTM	A 335	b	seamless tube	0,7	45	5	252							
11*)	TP430	ASTM	A 268	b	seamless tube	0,7	45	5	252							
12*)	S31803, S32205, S32760, S32750	ASTM ASTM	A789 A790	b	seamless tube	0,7	45	5	252							
13*)	800, 800H, 800HT	ASTM ASTM	B407 B163	b	seamless tube	0,7	45	5	252					For the use of materials acc. to column 2 till		
14*)	N08825	ASTM	B423	b	seamless tube	0,7	45	5	252					4 the regulations and limits of the respective standards have to be observed. The specific material operating conditions have to be approved by the pressure equipment manufacturer or respectively by the Approved Body in charge.		
15*)	X6CrNiNbN25-20 (1.4952)	ΤÜVV	546	AT	seamless tube	0,7	12,5	5	65							
Explanat	QT = quenched and tempered CR = a = material designation in column 10 d = dimensions acc. to technical rules	temperature con b = condition in	trolled hot former column 10 c	ed (controlled re = object in colu	olled) A = annealed AR = as rolled mn 10 al rules reference column 10			1	1	<u> </u>	I			l		
	l / revised: 2022-02-21				Approved: 2		1 W. Sch	nock						Page 2 of 2		
File: TS	-BABT-M-10_Scope of approval				Revision:	V 2					Printed	copies are no	t subject to c	hange service! Copyright TUV SUD BABT Unlimited		