

**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 3292774/2023/MUC-01 von / dated 2023-05-11

Name: Schoeller-Bleckmann Edelstahlrohr GmbH Manufacturer: Street: Rohrstraße 1 City: AT-2630 Ternitz	Country: AT	Date: rev. 0 2023-05-11	Page 1 of 3	Competent Body of TUV SUD BABT Unlimited
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No.	Material Designation Material Grade	Material Specification		Delivery Condition Code	Description Product	Dimensions				Weight		Requirements Technical Rules		Report no. C-725211971-22 dated 2022-11-21
		Spec.	No.			Thickness [mm]		Diameter [mm]		1=t	value	Spec.	No.	Remarks
						from	to	from	to	↓				
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) X10CrWMoVNb9-2 (1.4901) X11CrMoWVNb9-1-1 (1.4905) X20CrMoV11-1 (1.4922)	EN DIN	10216-2 17175*)	b1	nahtloses Rohr / seamless tube	0,5	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 = N, NT bzw. QT b1 = N, NT respectively QT
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 DIN DIN SEW	10216-5 17458*) 17459*) 400*)	AT AT AT AT	nahtloses Rohr / seamless tube	0,5	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.

Explanation: AT = solution annealed NT = normalized and tempererd N = normalized S = stress relieved TM = thermo-mech. treated U = not annealed
 QT = quenched and tempered CR = temperature controlled hot formed (controlled rolled) A = annealed AR = as rolled
 a = material designation in column 10 b = condition in column 10 c = object in column 10
 d = dimensions acc. to technical rules e = weight acc. to technical rules f = technical rules reference column 10

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		Spec.	No.			Thickness [mm]		Diameter [mm]		1=t	value	Spec.	No.	
						from	to	from	to	↓				
1	2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	9a	9b	10
03*)	X10NiCrAlTi 32-20 (1.4876)	TÜVV ASTM ASTM	412 B407 B163	AT	nahtloses Rohr / seamless tube	0,5	35	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. b2=acc. to technical rule 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.
04*)	X10NiCrAlTi 32-20 H (1.4876)	TÜVV ASTM ASTM	434 B407 B163	AT	nahtloses Rohr / seamless tube	0,5	35	5	252					
05*)	X2CrNiMoN 22-5-3 (1.4462) UNS S 31803 UNS S 32205	TÜVV ASTM ASTM	418 A789 A790	AT	nahtloses Rohr / seamless tube	0,5	35	5	252					
06*)	Stainless steels	ASTM ASTM	A 213 A 312	b2	nahtloses Rohr / seamless tube	0,5	45	5	252					
07*)	UNS S 32750 UNS S 32760	ASTM	A 790	AT	nahtloses Rohr / seamless tube	0,5	35	5	252					
08*)	X12CrNiTi18-9 (1.4878)	SEW	470	AT	Nahtloses Rohr / Seamless tube	0,5	45	5	252					
09*)	N08020	ASTM ASTM	A312 A213	AT	Nahtloses Rohr / Seamless tube	0,5	45	5	252					
10*)	2.4858 N08825	DIN ASTM	17744 B423	A	Nahtloses Rohr / Seamless tube	0,5	45	5	252					
11*)	2.4816 N06600	DIN ASTM	17742 B167	A	Nahtloses Rohr / Seamless tube	0,5	45	5	252					

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