

**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 3235327/2023/MUC-01 von / dated 2023-01-30

Name: Rohrwerke Maxhütte GmbH	Country: DE	Date: rev. 0 2023-01-30	Page: 1 of 2	Competent Body of TUV SUD BABT Unlimited
Manufacturer: Street: Franz-Kunze-Straße 1				
City: DE-92237 Sulzbach - Rosenberg				

No.	Material Designation Material Grade	Material Specification		Delivery Condition Code	Description Product	Dimensions				Weight		Requirements Technical Rules		Report no. C-3687332_PER-23 dated 2023-01-30
		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	P195TR1* (1.0107), P235TR1* (1.0254), P265TR1* (1.0258) P195TR2 (1.108), P235TR2 (1.0255), P265TR2 (1.0259)	EN	10216-1	N / CR	seamless tubes	2	13	21,3	139,7					*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is mandatory. 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.
02	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),	EN	10216-2	N / CR N / CR N / CR N / CR NT/ QT NT/ QT QT	seamless tubes	2	13	21,3	139,7					
03*)	L245NE, L290NE, L360NE	EN ISO EN	3183 10208-2	N	seamless pipe	2	13	21,3	139,7					
04	P215NL (1.0451), P265NL (1.0453)	EN	10216-4	N	seamless tubes	2	13	21,3	139,7					
05	P275NL1 (1.0488), P275NL2 (1.1104), P355N (1.0562), P355NH (1.0565), P355NL1 (1.0566), P355NL2 (1.1106) P460N (1.8905), P460NH (1.8935) P460NL1 (1.8915), P460NL2 (1.8918)	EN	10216-3	N	seamless tubes	2	13	21,3	139,7					
06*)	E235 (1.0308), E355 (1.0580)	EN	10305-4		cold drawn tubes for hydraulic and pneumatic power systems	2	10	14	80					
07*)	Grade A, B, C	ASME ASTM	SA-106 A 106	N, CR	seamless pipe	2,6	13	33,7	114,3					
08*)	T5, T11, T22	ASME ASTM	SA-213 A 213	NT	seamless tubes	2,6	13	33,7	114,3					

Explanation: AT = solution annealed NT = normalized and tempered 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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No.	Material Designation Material Grade	Material Specification		Delivery Condition Code	Description Product	Dimensions				Weight		Requirements Technical Rules		Report no. C-3687332_PER-23 dated 2023-01-30	
		Spec.	No.			Thickness [mm]		Diameter [mm]		1=t 2=kg ↓ value		Spec.	No.	Remarks	
						from	to	from	to					8a	8b
09*)	P5, P11, P22	ASME ASTM	SA-335 A 335	NT	seamless pipe	2,6	13	33,7	114,3						*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is mandatory. 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.
10*)	Grade 6	ASME ASTM	SA-333 A 333	N	seamless pipe	2,6	13	33,7	114,3						

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