

**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 3324031/2023/MUC-01 von / dated 2023-08-08

Name: ASOFORGE S.r.L. Manufacturer: Street: Via Seriola, 122 City: IT-25035 Ospitaletto (BS)	Werk / plant: Via Verginello, 29/31 IT-25045 Castegnato (BS)	Country: IT	Date: rev. 0 2023-08-08	Page 1 of 1	Competent Body of TUV SUD B A B T 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-722314778-23 dated 2023-04-05
		Spec.	No.			Thickness [mm]		Diameter [mm]		1=t	2=kg	Spec.	No.	
						from	to	from	to	↓				value
1	2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	9a	9b	10
01	C22.8/P250GH (1.0460), 15Mo3/16Mo3 (1.5415), 10CrMo9-10 (1.7380), 11CrMo9-10 (1.7383)	EN DIN*)	10222-2 17243	N N/QT NT/QT NT/QT	Stab / bar	-	-	300	1000	1	13			*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is mandatory. If the max. thickness given in EN standards is exceeded, a PMA is required. 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	P355NH (1.0565), QH1 (1.0571) W, T, SIE 355	EN DIN *) TÜVV*)	10222-4 17103 354/3	N/QT	Stab / bar	-	-	300	1000	1	13			
03	X5CrNi18-10 (1.4301), X2CrNi18-9 (1.4307), X2CrNiN18-10 (1.4311), X5CrNiMo17-12-2 (1.4401), X2CrNiMo17-12-2 (1.4404), X2CrNiMoN17-11-2 (1.4406), X2CrNiMo18-14-3 (1.4435), X3CrNiMo17-13-3 (1.4436), X6CrNiTi18-10 (1.4541), X6CrNiMoTi17-12-2 (1.4571)	EN	10222-5	AT	Stab / bar	-	-	200	600	1	13			
						-	-	200	600	1	13			
						-	-	200	600	1	13			
						-	-	200	960	1	24			
						-	-	200	960	1	24			
						-	-	200	600	1	13			
						-	-	200	600	1	13			
						-	-	200	600	1	13			
04	X2CrNiMoN22-5-3 (1.4462)	EN TÜVV*)	10222-5 418	AT	Stab / bar	-	-	180	400					
05*)	A105	ASTM	A105	N/NT/QT	Stab / bar	-	-	300	1000	1	13			
06*)	LF2	ASTM	A350	N/NT/QT	Stab / bar	-	-	300	1000	1	13			
07*)	F22 F51	ASTM	A182	NT/QT AT	Stab / bar	-	-	200	1000	1	13			
08*)	304, 304L, 304N, 316, 316L; 316N, 316Ti, 321	ASTM	A182	AT	Stab / bar	-	-	200	600	1	13			

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