

CERTIFICATE

TUV SUD BABT Unlimited

certifies that

voestalpine BÖHLER Edelstahl GmbH & Co KG Mariazeller Straße 25 AT-8605 Kapfenberg

has implemented, operates and maintains a

Quality Assurance System in accordance with the Pressure Equipment (Safety) Regulation 2016/1105, Schedule 2, Part. 4, Para. 31 (8) as well as EN 764-5, Para. 4.2

as a material manufacturer for the scope of

forgings, bars, ingots, continuous casting billets, slabs and billets.

The scope of the approval is described in the annex to this certificate. Further details are mentioned in report no. C-725248801-25.

The manufacturer is therefore authorized to issue certificates of specific product control within the scope of the assessed quality system and in accordance with the Pressure Equipment (Safety) Regulation 2016/1105. Possible additional requirements - specific to applied technical specifications to meet PER 2016/1105, Schedule 2 - are not affected.

This certificate is valid through 2028-02-29.

In order to adhere the validity an annual surveillance audit is required.

Certificate No.: PER-0168-QS-M 3203317/2022/MUC-02

Fareham, March 14th, 2025

TUV SUD BABT Unlimited

Certification Body
Materials and Permanent Joining

TUV SUD BABT Unlimited Octagon House, Concorde Way Segensworth North, Fareham, Hampshire, PO 15 5RL, United Kingdom







Annex to certificate no. PER-0168-QS-M 3203317/2022/MUC-02 dated 2025-03-14

Name: voestalpine Böhler Edelstahl GmbH & Co KG

Street: Mariazeller Straße 25

Manufacturer:

City: AT-8605 Kapfenberg

Country: Date: Page rev. 0 2025-03-14 1 of 5

Competent Body of TUV SUD BABT Unlimited

No.	Material Designation Material Grade		aterial Delivery cification Condition		·		Dime	nsions	meter	We 1=t	eight	Require Technic	ements al Rules	Report no. C-725248801-25 dated 2025-02-20
			ı				nm]	[mm] 2:		2=kg		ı	1	
		Spec.	No.	Code		from	to	from	to	\downarrow	value	Spec.	No.	Remarks
1	2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	9a	9b	10
01*)	Allgemeine Baustähle constructional steels	EN EN	10025-2 10250-2	N	Schmiedestück / forging Stabstahl / bar		100		100					*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is
02	Warmfeste Stähle Heat resitant steels	EN	10222-2	QT	Stabstahl / bar				d					mandatory.
03	P250GH (1.0460)	EN	10222-2	N	Schmiedestück / forging Stabstahl / bar		350		500					
04	P305GH (1.0436) 16Mo3 (1.5415) 13CrMo4-5 (1.7335) 11CrMo9-10 (1.7383)	EN	10222-2	N/QT N/QT N/QT QT	Schmiedestück / forging Stabstahl / bar		250		375					
05	12Ni14 (1.5637) X12Ni5 (1.5680), X8Ni9 (1.5662)	EN	10222-3	N/QT N/QT	Schmiedestück / forging Stabstahl / bar		70		105					
06	Austenitische Stähle Austenitic steels	EN EN EN EN	10222-5 10272 10269 10302 10088	АТ	Schmiedestück / forging Stabstahl / bar		d		d					
07	A2, A4	EN ISO	3506-1	AT	Stabstahl für Verbindungselemente / bars for fasteners				d					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

Created / revised: 2022-02-21 W. Schock Page 1 of 5
File: TS-BABT-M-10_Scope of approval Revision: V 2 Printed copies are not subject to change service! Copyright TUV SUD BABT Unlimited



Annex to certificate no. PER-0168-QS-M 3203317/2022/MUC-02 dated 2025-03-14

Name: voestalpine Böhler Edelstahl GmbH & Co KG

Street: Mariazeller Straße 25

City: AT-8605 Kapfenberg

Competent Body of TUV SUD BABT Unlimited

No.	Material Designation	Material		Delivery	Description		Dime	nsions		W	eight	•	ements	Report no. C-725248801-25
	Material Grade	Speci	fication	Condition	Product	Thi	ckness	Dia	meter	1=t		Technic	al Rules	dated 2025-02-20
			1			[mm]	[r	nm]	2=kg			ı	
		Spec.	No.	Code		from	to	from	to	\downarrow	value	Spec.	No.	Remarks
1	2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	9a	9b	10
08*)	X 8 CrNiNb 16 13 X 8 CrNiMoNb 16 16 X 8 CrNiMoVNb 16 13	TÜVV	104	AT	Schmiedestück / forging Stabstahl / bar		260		300 400					*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is
09*)	X20CrMoV11-1 (1.4922)	TÜVV	110	QT	Schmiedestück / forging Stabstahl / bar		250		375					mandatory.
10*)	X 8 CrNiMoBNb 16 16 wk (T262)	TÜVV	113/2	b1	Stabstahl / bar				80					
11*)	14 MoV 6-3 (1.7715)	TÜVV	184	QT	Schmiedestück / forging		60							
12*)	X 4 CrNiMoN 23 15	TÜVV	307	AT	Schmiedestück / forging		200		300					
13*)	X6CrNi18-11	DIN	17460	QT	Stabstahl / bar				160					
14*)	20 NiCrMo 14 5 (1.6772)	TÜVV	337	QT	Stabstahl / bar				130					
15*)	C 22.8 (1.0460)	TÜVV	350/3	N	Schmiedestück / forging Stabstahl / bar		150		225					
16*)	C 22.3 (1.0427)	TÜVV	364	N	Schmiedestück / forging Stabstahl / bar		150		225					
17*)	15NiCuMoNb5 (1.6368)	TÜVV	377/3	QT	Schmiedestück / forging Stabstahl / bar		250		375					
18*)	X5CrNi13-4 (1.4313)	TÜVV	395/3	QT	Schmiedestück / forging Stabstahl / bar		400		400					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:

Manufacturer:

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

 \mathbf{a} = material designation in column 10 \mathbf{b} = condition in column 10 \mathbf{c} = object in column 10

 \mathbf{d} = dimensions acc. to technical rules \mathbf{e} = weight acc. to technical rules \mathbf{f} = technical rules reference column 10

Created / revised: 2022-02-21 W. Schock Page 2 of 5
File: TS-BABT-M-10_Scope of approval Revision: V 2 Printed copies are not subject to change service! Copyright TUV SUD BABT Unlimited



Annex to certificate no. PER-0168-QS-M 3203317/2022/MUC-02 dated 2025-03-14

voestalpine Böhler Edelstahl GmbH & Co KG Name:

Mariazeller Straße 25 Street: City:

Manufacturer:

AT-8605 Kapfenberg

Country: Date: Page rev. 0 **AT** 2025-03-14 3 of 5

Competent Body of TUV SUD BABT Unlimited

No.	Material Designation Material Grade	Material Specification		Delivery Description Condition Product		Thic	Dime	nsions Dia	meter	Weight 1=t		Requirements Technical Rules		Report no. C-725248801-25 dated 2025-02-20	
						[r	mm]	[mm]		2=kg		,			
		Spec.	No.	Code		from	to	from	to	\downarrow	value	Spec.	No.	Remarks	
1	2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	9a	9b	10	
19*)	NiMo16Cr15W (2.4819) (L276)	TÜVV	400	AT	Stabstahl / bar		360		360					*) To fulfil essential safety requirements of PER	
20*)	20MnMoNi5-5 (1.6310)	TÜVV	401/3	QT	Massivteile / full parts Hohlteile / hollow parts		270 350		400 1700					Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is mandatory.	
21*)	X3CrNiMoN17-13-5 (1.4439)	TÜVV	405	AT	Schmiedestück / forging Stabstahl / bar		300		300					manuatory.	
22*)	X10NiCrAlTi32-20 (1.4876)	TÜVV	412	AT	Schmiedestück / forging Stabstahl / bar		250		300						
23*)	X2CrNiMoN22-5-3 (1.4462) (A903)	TÜVV	418	AT	Schmiedestück / forging Stabstahl / bar		225		300						
24*)	X2NiCrMoCu26-20-05 (1.4539)	TÜVV	421	AT	Schmiedestück / forging Stabstahl / bar		160		160						
25*)	X10NiCrAlTi32-20 H (1.4876)	TÜVV	434	AT	Schmiedestück / forging Stabstahl / bar		250		300						
26*)	X5NiCrTi26-15 (1.4980) (T200)	TÜVV	435/3	b2	Schmiedestück / forging Stabstahl / bar		300		300						
27*)	1.4533, 1.4553 1.4579	TÜVV	451	AT	Schmiedestück / forging Stabstahl / bar		d		d						
28*)	NiCr21Mo14 W (2.4602) (L022)	TÜVV	479	AT	Stabstahl / bar		360		360					For the use of metarials are to column 2 till	
29*)	1.6909	TÜVV	277/2	b1	Stabstahl / bar				60					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

 \mathbf{d} = dimensions acc. to technical rules \mathbf{e} = weight acc. to technical rules \mathbf{f} = technical rules reference column 10

Created / revised: 2022-02-21 Approved: 2022-02-21 W. Schock Page 3 of 5 File: TS-BABT-M-10_Scope of approval Revision: V 2 Printed copies are not subject to change service! Copyright TUV SUD BABT Unlimited



Annex to certificate no. PER-0168-QS-M 3203317/2022/MUC-02 dated 2025-03-14

Name: voestalpine Böhler Edelstahl GmbH & Co KG

Manufacturer: Street: Mariazeller Straße 25

City: AT-8605 Kapfenberg

Country: Date: Page rev. 0 2025-03-14 4 of 5

Competent Body of TUV SUD BABT Unlimited

-	T													
No.	Material Designation		terial	Delivery	Description		Dime	ensions		We	eight	Requirements		Report no. C-725248801-25
	Material Grade	Specification		Condition	Product		ckness	Diar	neter	1=t		Technic	al Rules	dated 2025-02-20
						1]	mm]	[m	ım]	2=kg				
		Spec.	No.	Code		from	to	from	to	\downarrow	value	Spec.	No.	Remarks
1	2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	9a	9b	10
30*)	X10CrMoVNb9-1 (1.4903)	TÜVV	511/3	QT	Schmiedestück / forging Stabstahl / bar		400		400					*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a
31*)	NiMo16Cr16Ti (2.4610) (L004)	TÜVV	424	AT	Schmiedestück / forging Stabstahl / bar		180		250					Particular Material Appraisal (PMA) is mandatory.
32*)	X11CrMoWVNb9-1-1 (1.4905)	TÜVV	522/3	QT	Schmiedestück / forging Stabstahl / bar		600		600					
33*)	UNS 32750 (A913)	ASTM	A484	AT	Stabstahl / bar				350					
34*)	UNS S32760 (A911SA)	ASTM	A484	AT	Stabstahl / bar				350					
35*)	UNS S32550 (A926)	ASTM	A484	AT	Stabstahl / bar				350					
36*)	X5 CrNiCuNb 14 5 3 (N701)	Siehe Bemerk ungen1)		AT	Schmiedestück / forging Stabstahl / bar		203,2		203,2 203,2					1) Anwendungsgutachten K6031 TÜV SÜD SZA Österreich. Lieferung mit APZ 3.2.
37*)	UNS N07718	ASME	SB-637	AT	Schmiedestück / forging Stabstahl / bar			12,5	254					
38*)	NiCr22Mo9Nb (2.4856) (L625) UNS N06625	ASME ASME	SB-564 SB-446	A	Schmiedestück / forging Stabstahl / bar			6,0	254					
39*)	NiCr23Mo16Al (2.4605) (L059) UNS N06059	ASME	SB-564	A	Schmiedestück / forging Stabstahl / bar			12,5	375					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

 \mathbf{a} = material designation in column 10 \mathbf{b} = condition in column 10 \mathbf{c} = object in column 10

d = dimensions acc. to technical rules e = weight acc. to technical rules f = technical rules reference column 10

Created / revised: 2022-02-21 W. Schock Page 4 of 5
File: TS-BABT-M-10_Scope of approval Revision: V 2 Printed copies are not subject to change service! Copyright TUV SUD BABT Unlimited



Annex to certificate no. PER-0168-QS-M 3203317/2022/MUC-02 dated 2025-03-14

Name: voestalpine Böhler Edelstahl GmbH & Co KG

Street: Mariazeller Straße 25 City: AT-8605 Kapfenberg

Manufacturer:

Country: Date: Page rev. 0 2025-03-14 5 of 5

Competent Body of TUV SUD BABT Unlimited

	Oity.	Oity. A1-0000 Napieriberg								2020-00-1		5-03-14 5 01 5			
N	o. Material D Materia	-		terial fication	Delivery Condition	Description Product	Thic	Dime ckness	ensions Diar	neter	1=t	eight	'	ements al Rules	Report no. C-725248801-25
								mm]	ſm	ım]	2=kg				dated 2025-02-20
			Spec.	No.	Code		from	to	from	to	↓	value	Spec.	No.	Remarks
-	1 2)	3a	3b	4	5	6a	6b	7a	7b	8a	8b	<u>орсс.</u> 9а	9b	10
40			ASTM	B637	A	Schmiedestück / forging Stabstahl / bar		375	12,5	254					*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a
41	*) NiCr23Co12Mo (2.4 UNS N06617	4863) (L617)	ASME	SB-564	А	Schmiedestück / forging Stabstahl / bar		254	12,5	235					Particular Material Appraisal (PMA) is mandatory.
42	Werkstoffe von lfd. materials from No.					Blöcke / ingot Stranggußknüppel/ continuous casting billet		132		252	2	1000			
						Brammen /slab Knüppel / billet	50	120 130							
43	1.6368		TÜVV	377/3	QT	Vorgeformtes Halbzeug / Pre- deformed semi- finished products				700					
44	XM19 (P511) UNS S20910		ASME	SA-479	AT	Schmiedestück / forging Stabstahl / bar Schmiedestück / forging		350 102		350					
						Stabstahl / bar		102		203,2					
45	Böhler P513 UNS S21800		ASME	SA-276	AT	Stabstahl / bar				203					
46	n*) NiCr21Mo (2.4858)	(L825)	ASME	SB-564	AT	Stabstahl / bar			6,0	254					
															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.
-	-l	.c		N _			<u> </u>		!	L	L				

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

Created / revised: 2022-02-21 W. Schock Page 5 of 5
File: TS-BABT-M-10_Scope of approval Revision: V 2 Printed copies are not subject to change service! Copyright TUV SUD BABT Unlimited