

CERTIFICATE

TUV SUD BABT Unlimited

certifies that

ITALFOND S.p.A. Via Industriale, 1 IT – 25021 Bagnolo Mella (BS)

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

ingots and forged bars in austenitic, austenitic-ferritic, martensitic steels and nickel alloys

The scope of the approval is described in the annex to this certificate. Further details are mentioned in report no. C-722393419-25.

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 2028-10-31.

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

Certificate No.: PER-0168-QS-M 3262204/2023/MUC-02

Fareham, 2025-09-22

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 3262204/2023/MUC-02 von / dated 2025-09-22

Name: ITALFOND S.p.A. Manufacturer: Street: Via Industriale, 1

City:

25021 Bagnolo Mella (BS)

Country: Date: Page rev. 0 ΙT 2025-09-22 1 of 5

Competent Body of TUV SUD BABT Unlimited

No	. Material Designation	Mat	erial	Delivery	Description		Dime	nsions		W	eight	Requirements		
	Material Grade	Speci	fication	Condition	Product	Thick	ness	Dia	meter	1=t		Technical Rules		Report no. C-722393419-25
						[m	ım]	[1	mm]	2=kg				dated 2025-09-09
		Spec.	No.	Code		from	to	from	to	↓	value	Spec.	No.	Remarks
	1 2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	9a	9b	10
01	X5CrNi18-10 (1.4301), X4CrNi18-12 (1.4303), X2CrNi19-11 (1.4306), X2CrNiN18-10 (1.4311), X6CrNiTi18-10 (1.4541), X6CrNiMb18-10 (1.4550), X5CrNiMo17-12-2 (1.4401), X2CrNiMo17-12-2 (1.4404), X2CrNiMoN17-11-2 (1.4406), X6CrNiMoTi17-12-2 (1.4408), X2CrNiMoN17-13-3 (1.4429), X2CrNiMoN17-13-3 (1.4435), X3CrNiMo18-14-3 (1.4436), X2CrNiMo18-15-4 (1.4438), X2CrNiMoN17-13-5 (1.4439), X2CrNiS18-9 (1.4305),	EN DIN	10088-3 17440	U	Block / ingot Stab geschmiedet, ungeglüht / forged bar, not annealed	1401)	7001)	160	700	1 -	21 -			*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is mandatory. 1) Quadratischer Querschnitt / square section General note: If wall thickness exceeds maximum specified wall thickness of the standard, an individual expertise and 3.2 inspection certificate are mandatory – Except for U delivery condition.
02	X1NiCrMoCu25–20–5 (1.4539), X1CrNiMoN25–22–2 (1.4466), X2CrNiMoCuWN25–7-4 (1.4501), X5CrNiCuNb16–4 (1.4542), X2CrNi18–9 (1.4307), X2CrNiMoCuN25–6-3 (1.4507), X2CrNiMoN25–7-4 (1.4410)	EN EN	10088-2 10088-3		Block / ingot Stab geschmiedet, ungeglüht / forged bar, not annealed	- 140 ¹⁾	7001)	160	700	1 -	21			
03	X2CrNiMoN22-5-3 (1.4462)	TÜVV EN EN	418 10272 10222-5	UUU	Block / ingot Stab geschmiedet, ungeglüht / forged bar, not annealed	- 140 ¹⁾	7001)	160	700	1 -	21			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 = d technical rules reference column 10

Created / revised: 2022-02-21 Approved: 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 3262204/2023/MUC-02 von / dated 2025-09-22

Name: ITALFOND S.p.A. Manufacturer: Street: Via Industriale, 1

City: 25021 Bagnolo Mella (BS) Country: Date: Page rev. 0 ΙT 2025-09-22 2 of 5

Competent Body of TUV SUD BABT Unlimited

No.	Material Designation Material Grade		terial fication	Delivery Condition	Description Product		Dime kness		meter	1=t 2=kg	eight	Requirements Technical Rules		Report no. C-722393419-25 dated 2025-09-09
		Spec.	No.	Code		from	to	from	to	→	value	Spec.	No.	Remarks
1	2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	9a	9b	10
04	X3CrNiMo13-4 (1.4313)	EN EN TÜVV	10222-5 10272 395/3*)	U	Block / ingot Stab geschmiedet, ungeglüht / forged bar, not annealed	- 140 ¹⁾	- 700¹)	- 160	- 700	1 -	21			*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is
05	X1CrNiMoCuN20-18-7 (1.4547)	EN EN TÜVV	10222-5 10272 473*)	U	Block / ingot Stab geschmiedet, ungeglüht / forged bar, not annealed	- 140 ¹⁾	- 700 ¹⁾	- 160	- 700	1 -	21			mandatory.
06	X4CrNiMo16-5-1 (1.4418)	EN	10272	U	Block / ingot Stab geschmiedet, ungeglüht / forged bar, not annealed	- 140 ¹⁾	- 700¹)	- 160	- 700	1 -	21			Quadratischer Querschnitt / square section General note: If wall thickness exceeds
07*)	X10NiCrAITi 32-20 H (1.4876)	TÜVV SEW	434 470	U	Block / ingot Stab geschmiedet, ungeglüht / forged bar, not annealed	- 140 ¹⁾	- 700 ¹⁾	- 160	- 700	1 -	21			maximum specified wall thickness of the standard, an individual expertise and 3.2 inspection certificate are mandatory – Except for U delivery condition.
08	X5CrNi18-10 (1.4301), X2CrNi19-11 (1.4306), X2CrNi18-9 (1.4307), X2CrNiN18-10 (1.4311), X5CrNiMo17-12-2 (1.4401), X2CrNiMo17-12-2 (1.4404), X2CrNiMo18-14-3 (1.4435), X3CrNiMo17-13-3 (1.4436) X6CrNiNb18-10 (1.4550), X6CrNiTi18-10 (1.4541), X6CrNiMoTi17-12-2 (1.4571), X2CrNiMoN25-7-4 (1.4410)	EN EN DIN	10222-5 10272 17440*)	AT	geschmiedeter Stab / forged bar	100	600	150	600	-				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

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City: 25021 Bagnolo Mella (BS) Country: Date: Page rev. 0 ΙT 2025-09-22 3 of 5

Competent Body of TUV SUD BABT Unlimited

No.	Material Designation Material Grade		terial fication	Delivery Condition	Description Product		ness		meter	1=t 2=kg	eight	Requirements Technical Rules		Report no. C-722393419-25 dated 2025-09-09
		Spec.	No.	Code		from	to	from	mm] to	2-kg ↓	value	Spec.	No.	Remarks
1	2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	9a	9b	10
09	X2CrNiMoN22-5-3 (1.4462)	EN EN TÜVV	10222-5 10272 418*)	AT	geschmiedeter Stab / forged bar	100	400	140	400	-	-			*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is
10	X2CrNiMoCuWN25-7-4 (1.4501), X2CrNiMoCuN25-6-3 (1.4507)	EN	10272	AT	geschmiedeter Stab / forged bar	100 100	500 250	150 150	500 250	-	- -			mandatory.
11	X3CrNiMo13-4 (1.4313)	EN EN TÜVV	10222-5 10272 395/3	QT	geschmiedeter Stab / forged bar	100	250	150	250	-	-			
12*)	X1NiCrMoCu25-20-5 (1.4539)	EN EN TÜVV	10222-5 10272 421	AT	geschmiedeter Stab / forged bar	-	500	-	500	-	-			General note: If wall thickness exceeds maximum specified wall thickness of the standard, an individual expertise and 3.2 inspection certificate are mandatory – Except for
13*)	NiCr22Mo9Nb (2.4856)	TÜVV	499	Α	geschmiedeter Stab / forged bar	-	320	-	480	-	-			U delivery condition.
14*)	NiCr21Mo (2.4858)	TÜVV	432/3	Α	geschmiedeter Stab / forged bar	-	330	-	500	-	-			²⁾ as defined in the specifications ITER D 2DX6KS, ITER D 2EFZGP and
15*)	316L(N)-IG	2)		U AT	Block / ingot geschmiedeter Stab / forged bar	- 100	- 500	- 150	- 500	1 -	21 -			Section 2 of RCC-MR Edition 2007 3) as defined in Section 2 of RCC-MR
16*)	X2CrNiMo17-12-2 (1.4404) with controlled Nitrogen content	3)		U AT	Block / ingot geschmiedeter Stab / forged bar	- 100	- 500	- 150	- 500	1 -	21 -			Edition 2007- RM 3324: Bars 1) Quadratischer Querschnitt / square section
17*)	S31254	ASTM	A 276	AT	Block / ingot Stab geschmiedet, ungeglüht / forged bar, not annealed	- 140 ¹⁾	7001)	160	700	1 -	21			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.

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Competent Body of TUV SUD BABT Unlimited

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No.	Material Designation			Delivery Condition	Product					Weight		Require Technic		Report no. C-722393419-25
	Material Grade	Spec	lication	Condition	Product	Thick	ness	Dia	Diameter			recinic	ai Rules	dated 2025-09-09
			1			[m	im]	[r	nm] I	2=kg			Ī	B 1
		Spec.	No.	Code		from	to	from	to	↓	value	Spec.	No.	Remarks
1	2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	9a	9b	10
18*)	N06600	ASTM	B564	U	Block / ingot					1	21			*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non
19*)	X15CrNiSi20-12 (1.4828), X15CrNiSi25-21 (1.4841), X8CrNi25-21 (1.4845)	EN	10095	U	Block / ingot					1	21			designated standards a Particular Material Appraisal (PMA) is mandatory.
20*)	X15CrNiSi25-21 (1.4841), X8CrNi25-21 (1.4845)	EN	10095	AT	geschmiedeter Stab / forged bar	150	350	150	350	-	-			
21*)	X1NiCrMoCu25-20-5 (1.4539)	EN	10272	AT	geschmiedeter Stab / forged bar	140	500	140	500	-	-			
22*)	UNS N06625	ASTM	B446	A/U	Block / ingot geschmiedeter Stab / forged bar	- 125	- 420	- 125	- 420	1	21			General note: If wall thickness exceeds maximum specified wall thickness of the standard, an individual expertise and 3.2 inspection certificate are mandatory – Except for
23*)	UNS N08825	ASTM	B425	A/U	Block / ingot geschmiedeter Stab / forged bar	- 125	- 420	- 125	- 420	1 -	21 -			U delivery condition.
24*)	UNS No 8020, Alloy 20 NiCr20CuMo (2.4660)	ASTM DIN	B473 17744	U A	Block / ingot geschmiedeter Stab / forged bar	125 140	500 350	-	-	-	-			
25*)	UNS S32750 F347, F347H	ASTM	A479	AT U	geschmiedeter Stab / forged bar Block / ingot	140	500	-	-	-	-			
26*)	UNS S17400	ASTM	A 564	H1150D U	geschmiedeter Stab / forged bar Block / ingot	140	360	-	-	-	-			
														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.

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Name: ITALFOND S.p.A.

Manufacturer: Street: Via Industriale, 1

City: 25021 Bagnolo Mella (BS)

Country: Date: Page rev. 0 2025-09-22 5 of 5

Competent Body of TUV SUD BABT Unlimited

No.	Material Designation Material Grade		Material Specification		1 1		'		Dimen:		meter	1=t	eight	Require Technic	ements al Rules	Report no. C-722393419-25 dated 2025-09-09
		Spec.	No.	Code		[m	nm] to	[r from	nm] to	2=kg ↓	value	Spec.	No.	Remarks		
1	2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	9а	9b	10		
27*)	UNS N07718	API	6ACRA	b U	geschmiedeter Stab / forged bar Block / ingot	70	485	-	-	-	-			*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a		
28*)	UNS N09925	API	6ACRA	b U	geschmiedeter Stab / forged bar Block / ingot	100	470	-	-	-	-			Particular Material Appraisal (PMA) is mandatory.		
29*)	UNS S66286 (A286)	ASTM	A453	AT+Aged U	geschmiedeter Stab / forged bar Block / ingot	100	250 -	100 -	250 -	1	- 15					
30*)	UNS N09925	API	6ACRA	b U	geschmiedeter Stab / forged bar Block / ingot	100	470 -	100 -	470 -	- 1	- 15			b: as defined in the technical specification		
31*)	UNS N10276 (C276)	ASTM	B564	AT U	geschmiedeter Stab / forged bar Block / ingot	100	330 -	100 -	330 -	<u>-</u> 1	- 15			General note: If wall thickness exceeds maximum specified wall thickness of the standard, an individual expertise and 3.2		
32*)	316,316L	ASTM ASTM	A276 A479	AT	geschmiedeter Stab / forged bar	100	800	150	800	-	-			inspection certificate are mandatory – Except for U delivery condition.		
33	X6CrNi18-10 (1.4948)	EN	10222-5	U	Ingot Forged bar	100	- 500	150	- 500	1 -	21					
														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.		

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