



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-722306666-22.

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 2025-10-31.

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

Certificate No.: PER-0168-QS-M 3262204/2023/MUC-01
Fareham, 2023-03-08

TUV SUD BABT Unlimited

(M. Strobel)

Certification Body
Materials and Permanent Joining

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

TUV®



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08.03.2023

CERTIFICAT

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СЕРТИФИКАТ

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CERTIFICATE

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**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 3262204/2023/MUC-01 von / dated 2023-03-08

Name: ITALFOND S.p.A.	Country: IT	Date: rev. 0 2023-03-08	Page: 1 of 5	Competent Body of TUV SUD B A B T Unlimited
Manufacturer: Street: Via Industriale, 1				
City: 25021 Bagnolo Mella (BS)				

No.	Material Designation Material Grade	Material Specification		Delivery Condition Code	Description Product	Dimensions				Weight		Requirements Technical Rules		Report no. C-722306666-22 dated 2022-11-10
		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	X5CrNi18-10 (1.4301), X4CrNi18-12 (1.4303), X2CrNi19-11 (1.4306), X2CrNi18-10 (1.4311), X6CrNiTi18-10 (1.4541), X6CrNiNb18-10 (1.4550), X5CrNiMo17-12-2 (1.4401), X2CrNiMo17-12-2 (1.4404), X2CrNiMoN17-11-2 (1.4406), X6CrNiMoTi17-12-2 (1.4571), X2CrNiMoN17-13-3 (1.4429), X2CrNiMo18-14-3 (1.4435), X3CrNiMo17-13-3 (1.4436), X2CrNiMo18-15-4 (1.4438), X2CrNiMoN17-13-5 (1.4439), X8CrNiS18-9 (1.4305), X20Cr13 (1.4021)	EN DIN	10088-3 17440	U U	Block / ingot Stab geschmiedet, ungeglüht / forged bar, not annealed	- 140 ¹⁾	- 700 ¹⁾	- 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
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	U U	Block / ingot Stab geschmiedet, ungeglüht / forged bar, not annealed	- 140 ¹⁾	- 700 ¹⁾	- 160	- 700	1 -	21 -			
03	X2CrNiMoN22-5-3 (1.4462)	TÜVV EN EN	418 10272 10222-5	U U	Block / ingot Stab geschmiedet, ungeglüht / forged bar, not annealed	- 140 ¹⁾	- 700 ¹⁾	- 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
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**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 3262204/2023/MUC-01 von / dated 2023-03-08

Name: ITALFOND S.p.A.	Country: IT	Date: rev. 0 2023-03-08	Page: 2 of 5	Competent Body of TUV SUD B A B T Unlimited
Manufacturer: Street: Via Industriale, 1				
City: 25021 Bagnolo Mella (BS)				

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		Spec.	No.			Thickness [mm]		Diameter [mm]		1=t 2=kg ↓ value		Spec.	No.	
						6a	6b	7a	7b					8a
04	X3CrNiMo13-4 (1.4313)	EN EN TÜVV	10222-5 10272 395/3*)	U U	Block / ingot Stab geschmiedet, ungeglüht / forged bar, not annealed	- 140 ¹⁾	- 700 ¹⁾	- 160	- 700	1 -	21 -			<p>*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is mandatory.</p> <p>¹⁾ Quadratischer Querschnitt / square section</p> <p>General note: If wall thickness exceeds maximum specified wall thickness of the standard, an individual expertise and 3.2 inspection certificate are mandatory.</p> <p>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.</p>
05	X1CrNiMoCuN20-18-7 (1.4547)	EN EN TÜVV	10222-5 10272 473*)	U U	Block / ingot Stab geschmiedet, ungeglüht / forged bar, not annealed	- 140 ¹⁾	- 700 ¹⁾	- 160	- 700	1 -	21 -			
06	X4CrNiMo16-5-1 (1.4418)	EN	10272	U U	Block / ingot Stab geschmiedet, ungeglüht / forged bar, not annealed	- 140 ¹⁾	- 700 ¹⁾	- 160	- 700	1 -	21 -			
07*)	X10NiCrAlTi 32-20 H (1.4876)	TÜVV SEW	434 470	U U	Block / ingot Stab geschmiedet, ungeglüht / forged bar, not annealed	- 140 ¹⁾	- 700 ¹⁾	- 160	- 700	1 -	21 -			
08	X5CrNi18-10 (1.4301), X2CrNi19-11 (1.4306), X2CrNi18-9 (1.4307), X2CrNi18-10 (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	-	-			

Explanation: AT = solution annealed NT = normalized and tempererd N = normalized S = stress relieved TM = thermo-mech. treated U = not annealed
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		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
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 mandatory. General note: If wall thickness exceeds maximum specified wall thickness of the standard, an individual expertise and 3.2 inspection certificate are mandatory. 2) as defined in the specifications ITER_D_2DX6KS, ITER_D_2EFZGP and Section 2 of RCC-MR Edition 2007 3) as defined in Section 2 of RCC-MR Edition 2007- RM 3324: Bars 1) Quadratischer Querschnitt / square section 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	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	-	-			
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	-	-			
13*)	NiCr22Mo9Nb (2.4856)	TÜVV	499	A	geschmiedeter Stab / forged bar	-	320	-	480	-	-			
14*)	NiCr21Mo (2.4858)	TÜVV	432/3	A	geschmiedeter Stab / forged bar	-	330	-	500	-	-			
15*)	316L(N)-IG	2)		U AT	Block / ingot geschmiedeter Stab / forged bar	- 100	- 500	- 150	- 500	1 -	21 -			
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 -			
17*)	S31254	ASTM	A 276	AT	Block / ingot Stab geschmiedet, ungeglüht / forged bar, not annealed	- 140 ¹⁾	- 700 ¹⁾	- 160	- 700	1 -	21 -			

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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
18*)	N06600	ASTM	B564	U	Block / ingot					1	21			<p>*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is mandatory.</p> <p>General note: If wall thickness exceeds maximum specified wall thickness of the standard, an individual expertise and 3.2 inspection certificate are mandatory.</p> <p>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.</p>
19*)	X15CrNiSi20-12 (1.4828), X15CrNiSi25-21 (1.4841), X8CrNi25-21 (1.4845)	EN	10095	U	Block / ingot					1	21			
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			
23*)	UNS N08825	ASTM	B425	A / U	Block / ingot geschmiedeter Stab / forged bar	- 125	- 420	- 125	- 420	1	21			
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	-	-	-	-			

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Manufacturer: Street: Via Industriale, 1				
City: 25021 Bagnolo Mella (BS)				

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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
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 Particular Material Appraisal (PMA) is mandatory. b: as defined in the technical specification General note: If wall thickness exceeds maximum specified wall thickness of the standard, an individual expertise and 3.2 inspection certificate are 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.
28*)	UNS N09925	API	6ACRA	b U	geschmiedeter Stab / forged bar Block / ingot	100	470	-	-	-	-			
29*)	UNS S66286 (A286)	ASTM	A453	AT+Aged U	geschmiedeter Stab / forged bar Block / ingot	100	250	100	250	-	-			
30*)	UNS N09925	API	6ACRA	b U	geschmiedeter Stab / forged bar Block / ingot	100	470	100	470	-	-			
31*)	UNS N10276 (C276)	ASTM	B564	AT U	geschmiedeter Stab / forged bar Block / ingot	100	330	100	330	-	-			
32*)	316,316L	ASTM ASTM	A276 A479	AT	geschmiedeter Stab / forged bar	100	800	150	800	-	-			

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