



# CERTIFICATE

**TUV SUD BABT Unlimited**

certifies that

**SAFAS S.p.A.**  
**Via Verona, 23**  
**36077 Tavernelle di Altavilla (VI)**  
**Italy**

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

Ferritic and stainless steel castings

The scope of the approval is described in the annex to this certificate.  
Further details are mentioned in report no. C-722312348-23.

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 2026-06-29.

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

Certificate No.: PER-0168-QS-M 3292765/2023/MUC-01  
Fareham, 2023-06-29

**TUV SUD BABT Unlimited**

(Dirk Schroeter)

**Certification Body**  
Materials and Permanent Joining

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

TUV®



EQ3292765

DSchroeter

29.06.2023

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СЕРТИФИКАТ

認證證書

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 3292765/2023/MUC-01 von / dated 2023-06-29**

Name: Safas S.p.A. Street: Via Verona, 23 City: I-36077 Tavernelle di Altavilla (VI)	Country:  <b>IT</b>	Date: rev. 0 2023-06-29	Page 1 of 3	<b>Competent Body of TUV SUD BABT Unlimited</b>
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No.	Material Designation Material Grade	Material Specification		Delivery Condition Code	Description Product	Dimensions				Weight		Requirements Technical Rules		Report no.C-722312348-23 dated 2023-02-21
		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
01 <sup>1)</sup>	G200 (1.0420), GE240 (1.0446) GS-38.3, GS-45.3	EN DIN	10293 1681	N	Castings	-	-	-	-	1	12			*) 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>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.</b>
02	GP240GH (1.0619) / GS-C 25 G20Mn5 (1.6220) / GS-22 Mo4 G17CrMo5-5 (1.7357) / GS-17 CrMo5 5	EN DIN	10213 17245*	N/QT	Castings	-	-	-	-	1	12			
03 <sup>1)</sup>	GX6CrNi18-10	SEW	685*	AT	Castings	-	-	-	-	1	12			
04	G-X5CrNi18-10 (1.4313) G-X4CrNi13-4 (1.4317) G-X3CrNi13-4 (1.6982)	VdTÜV EN	452* 10213	QT	Castings	-	-	-	-	1	20			
05	C35 Ck35 , Cq35, 24CrMo5	DIN EN	17240* 10269	U	Ingots	-	-	-	-	1	10			
06	C22.8	EN DIN VdTÜV	10222-2 17243* 350/3*	U	Ingots	-	-	-	-	1	10			
07*	C22.3	VdTÜV	364	U	Ingots	-	-	-	-	1	10			
08*	WCA, WCB, WCC	ASME ASTM	SA216 SA216M A216 216M	A/N/NT	Castings	-	-	-	-	1	10			
09*	WC1, WC6, WC9, CA15	ASTM ASME	A217 A217M SA217 SA217M	NT	Castings	-	-	-	-	1	15			

**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

**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 EQ\_No./Year/MUC-01 von / dated ---**

Name: Safas S.p.A. Street: Via Verona, 23 City: I-36077 Tavernelle di Altavilla (VI)	Country: <b>IT</b>	Date: rev. 0 ---	Page 2 of 3	<b>Competent Body of TUV SUD BABT Unlimited</b>
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No.	Material Designation Material Grade	Material Specification		Delivery Condition Code	Description Product	Dimensions				Weight		Requirements Technical Rules		Report no. --- dated ---
		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
10*	CF3, CF3M, CF8, CF8M	ASTM	A296 A296M	AT	Casting	-	-	-	-	1	10			*) 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>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.</b>
11*	CF3, CF3A, CF8M, CF8, CF8A CF8C, CF3M, CD4MCu, CN7M	ASTM ASTM	A351 A351M A351 A351M	AT	Casting	-	-	-	-	1	10			
12*	LCA, LCB, LCC, LC1, LC2, LC2-1 LC3	ASME ASTM	SA352 SA352M A352 A352M	NT/QT	Casting	-	-	-	-	1	12			
13*	8, class B+ C	ASME ASTM	SA487 SA487M A487 A487M	QT	Casting	-	-	-	-	1	20			
14*	CF3, CF8M, CF8, CF8C, CF3M, CN7M	ASTM	A743	AT	Casting	-	-	-	-	1	17			
15*	CF3, CF8M, CF8, CF8C, CF3M, CN7M	ASTM	A744	AT	Casting	-	-	-	-	1	17			
16	G17CrMoV5-10 (1.7706) GS-17CrMoV5 11	EN DIN	10213 17245*	QT	Casting	-	-	-	-	1	10			
17	G17CrMo9-10 (1.7379) GS-18 CrMo9 10	EN DIN	10213 17245*	QT	Casting	-	-	-	-	1	10			
18	GX23CrMoV12-1 (1.4931) GX22CrMoV12-1	EN DIN	10213 17245*	QT	Casting	-	-	-	-	1	10			
19*	1B, 4A, 5A, 6A	ASME ASTM	SA995 A995	AT	Casting	-	-	-	-	1	14			

**Explanation:** AT = solution annealed NT = normalized and tempererd N = normalized S = stress relieved TM = thermo-mech. treated U = not annealed  
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