

Certificate

of suitability of a Material Manufacturer in accordance with the requirements of the Pressure Equipment Safety Regulations 2016 SI 2016 No.: 1105 as amended

Certificate no.: 2571 USA/Q-22 2856

Name and address of the
certificate holder: **Signicast LLC**
1800 Innovation Way,
Hartford WI 53027
USA

TUV Rheinland UK Ltd., an approved body as described within the Pressure Equipment Safety Regulations 2016 as amended, has verified, and validated the suitability of the material(s) detailed in the annex to the certificate to be acceptable under The Pressure Equipment Safety Regulations 2016, Schedule 2 (8) as applicable to the UK for use in pressure equipment manufacture

Test basis: **QM System acc. to EN 764-5:2014, article 4.2,**
Regulations 2016. SI 2016 No.1105 as amended,
Code of Practice for the approval of material manufacturers
under the provisions of the UK Pressure Equipment Safety
Regulations

Audit report no.: 2571 USA/Q-22 2856

Scope: **Manufacture of components using the investment in Austenitic,**
ferrous and nickel alloys,
see annex to certificate revision 0 from 2022-08-16

Manufacturing plant: See annex 2

Date of Review: **2023-02-14**

Date of Certificate: **2023-02-14**

Date of Expiry: **2024-08-10**

Remarks: This certificate was first issued on 2023-02-14.
Continued approval is subject to the referenced QMS certificate being maintained and kept up to date in accordance with the scope of original certification body approval. Any changes to the scope and or the products listed above invalidate this certificate. It remains incumbent on the user of this certificate to verify its continued validity.

Cologne, 2023-02-14


Gerhard Brokopp



TUV Rheinland UK Ltd
Approved Body for pressure equipment, No. 2571
1011 Stratford Road, Shirley, Solihull, B90 4BN
ukca@uk.tuv.com

MS-0047560 E-208-Rev0

Annex 2

of suitability of a Material Manufacturer in accordance with the requirements of the Pressure Equipment Safety Regulations 2016 SI 2016 No.: 1105 as amended

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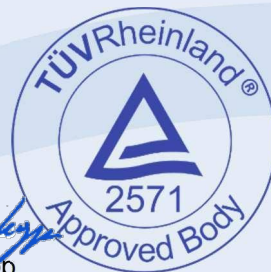
Manufacturing plants: **Signicast LLC**
1800 Innovation Way,
Hartford WI 53027
USA

Signicast LLC
9000 N 55th Street,
Milwaukee WI 53223
USA

Signicast LLC
1501 S I-45 Service Rd.,
Hutchins TX 75141
USA

Cologne, 2023-02-14


Gerhard Brokopp



TUV Rheinland UK Ltd
Approved Body for pressure equipment, No. 2571
1011 Stratford Road, Shirley, Solihull, B90 4BN
ukca@uk.tuv.com

MS-0047560 E-299a-E rev.0

Certificate

Quality management system for Manufacturer of Materials acc. to Directive 2014/68/EU

Certificate no.: 01 202 USA/Q-06 2856.00

Name and address of the
certificate holder: **Signicast LLC**
1800 Innovation Way
Hartford WI 53027
USA

Herewith we certify that the material manufacturer has established and applies a Quality Management System. The system was audited according to the European Directive 2014/68/EU, Annex I, Par. 4.3, with regard to the materials as listed in the scope of approval.

Test basis: **QM System acc. to EN 764-5, article 4.2**

Audit report no.: 01 202 USA/Q-06 2856

Scope: **Manufacture of components using the investment casting in Austenitic, ferrous and nickel alloys, see annex, 01 202 USA/Q-06 2856, 8/16/2022, Rev.: 6, to certificate**

Manufacturing plant: see annex 2

Validity: **This certificate is valid until 2024-08-10.**

Cologne, 2023-02-17


Dipl.-Ing. (FH) Vera Ruff



TÜV Rheinland Industrie Service GmbH
Notified Body for Pressure Equipment, ID-No. 0035
Am Grauen Stein, D-51105 Cologne

E-108a

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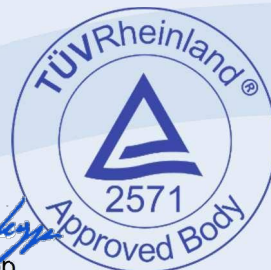
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Scope according to	<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3	<input type="checkbox"/> EN 764-4	<input type="checkbox"/> AD 2000-Merkblatt W0	<input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+)								
Manufacturer		Work		Nationality	Date	Page No..						
Company Name: Signicast LLC		1800 Innovation Way Hartford WI 53027		USA	8/16/2022	1	TÜV Rheinland					
Location: 1800 Innovation Way, Hartford WI 53027		9000 N 55 th Street, Milwaukee WI 53223										
		1501 S I-45 Service Rd., Hutchins TX 75141		Rev.: 6	of: 1		Industrie Service GmbH					
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max 1=t / 2=kg ↓ res ult	Technical Specifications Requirements Technical Regulations	Remarks	
					Thick-ness mm		Ø mm					
					from	Up to	from	Up to				
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
1. Materials according to international standards (e. g. ASTM, ASME, IBR etc.)												
The use of the materials according to Directive 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.												
1	CF3	ASTM/ASME A/SA351	AT	All -	1	150	25	300	2	90	ASTM/ASME	a
2	CF3M	ASTM/ASME A/SA351	AT	Investment	1	150	25	300	2	90	ASTM/ASME	a
3	CF8	ASTM/ASME A/SA351	AT	Castings	1	150	25	300	2	90	ASTM/ASME	a
4	CF8M	ASTM/ASME A/SA351	AT		1	150	25	300	2	90	ASTM/ASME	a
5	CW2M	ASTM A494	AT		1	150	25	300	2	90	ASTM	a
6	LCC	ASTM/ASME A/SA352	QT		1	150	25	300	2	90	ASTM/ASME	a
7	WCB	ASTM/ASME A/SA216	QT		1	150	25	300	2	90	ASTM/ASME	a
Remarks												
+AT = solution annealed & Air Quenched			+NT = normalized and tempered			a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary						
+AR = as rolled			+QT = quenched and tempered									
+M = thermo mechanical treated			+S = soft annealed									
+N = normalized or normalizing formed			+SR = stress relieved									
+U = Untreated												