

CERTIFICATE

**Quality-Assurance System for material manufacturer
according to Pressure Equipment Directive 2014/68/EU**

Certificate no.: 07/202/1409/WZ/1747/22

**Name and address
of the manufacturer:** **Invac Cast Limited**
Survey No: 444 to 453 & 455, Vadodara - Mumbai NH No:8
Nana Fofadiya Road, Village: Bamangam,
Karjan, Vadodara, Gujarat - 391 210, India

Herewith we certify that the manufacturer has established and applies a **quality-assurance system related to the material**. This QA System has been subjected to a specific assessment acc. to directive 2014/68/EU, annex I, point 4.3 with regard to the materials mentioned in the scope of approval.

**Approved acc. to directive
2014/68/EU:** **QA-System in relation to materials,
EN 764-5, section 4.2 and AD2000-Merkblatt W0**

Certification file no.: **812 012 1554**

Audit report file no.: **812 008 1360**

Scope of approval: **Manufacture and Supply of Investment Castings**
(product / material)

Production site: **Survey No: 444 to 453 & 455, Vadodara - Mumbai NH No: 8**
Nana Fofadiya Road, Village: Bamangam,
Karjan, Vadodara, Gujarat - 391 210, India

The certificate is valid until: **January 2025**

Only valid in conjunction with a valid certificate acc. to EN ISO 9001.

Essen, 2022-01-31



**Notified Body (0045)
for Pressure Equipment**

Niekamp

**TUV NORD Systems GmbH & Co. KG,
Große Bahnstraße 31, D-22525 Hamburg**

Annex: Scope of Approval

**Conventional Power Plants
Am TÜV 1
45307 Essen**

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Member of



CONFÉDÉRATION EUROPÉENNE D'ORGANISMES DE CONTRÔLE

Notifizierte Stelle 0045 / Notified Body 0045

Geltungsbereich der Überprüfung gemäß / Scope of Approval according to

- Richtlinie 2014/68/EU, Anhang I, Nummer 4.3 / Directive 2014/68/EU, Annex I, Point 4.3.
- AD 2000-Merkblatt W 0 / AD 2000-Merkblatt W 0

Firma / Company: Invac Cast Limited

Ort / Location: Survey No: 444 to 453 & 455,
Vadodara - Mumbai NH: 08,
Nana Fofadiya Road, Village: Bamangam
Karjan, Vadodara, Gujarat - 391210, India

Zertifikat-Nr. / Certificate No.: 07 202 1409 WZ 1747/22

Zertifikat-Nr. / Certificate No.: 07 203 1409 WP 1747/22

Datum / Date: 31.01.2022

AZ / File No.: ISIPW-79/22

SAP-No.: 812 012 1554

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Nr. No.	Werkstoffbezeichnung Material designation	Spezifikation Specification	Lieferzustand* Delivery cond.*	Erzeugnisform Product type	Abmessungen Dimensions		Prüfgrundlagen Test specifications	Bemerkungen Remarks
					Dicke Thickness [mm]	Ø / Gewicht Ø / Weight [kg]		
1.11	1.0619	EN 10213	+N +QT	Investment Casting	Max. 65 mm	Max. 75 kg	Directive 2014/68/EU AD 2000 Merkblatt W5	Certified acc to PED annex 1 sec.4.3 by the notified body of TUV Nord systems (Reg no. 0045)
1.12	1.4308	EN 10213	+AT	Investment Casting				
1.13	1.4408	EN 10213	+ AT	Investment Casting				
1.14	1.7357*1	EN 10213	N,+QT	Investment Casting				
2.11	1.4308	EN 10213	+AT	Investment Casting	Max. 65 mm	Max. 75 kg	AD 2000 Merkblatt W10	With Inspection Certificate 3.1 in Acc. with EN 10204 for use in area of AD 2000 W10, Table 1, foot note 11. Letter of agreement by TUV NORD Systems Dtd: 13.03.2020, TUV File 811 701 9471
2.12	1.4408	EN 10213	+AT	Investment Casting	Max. 65 mm	Max. 75 kg	AD 2000 Merkblatt W10	
3.11	WCB	ASTM A/SA 216	+ N	Investment Casting	Max 65mm	Max. 75 kg		If use in area of PED 2014/68/EU a Particular Material Appraisal(PMA) is necessary
3.12	WCC	ASTM A/SA 216	+N	Investment Casting				
3.13	CA15	ASTM A/SA 217	+NT	Investment Casting				
3.14	CA15-B&C	ASTM A/SA 487	+N+QT	Investment Casting				
3.15	WC6	ASTM A/SA 217	+NT	Investment Casting				
3.16	CN7M	ASTM A/SA 351	+AT	Investment Casting				
3.17	CK3MCuN	ASTM A/SA 351	+AT	Investment Casting				
3.18	CF8C	ASTM A/SA 351	+AT+Stabilized	Investment Casting				
3.19	CF3	ASTM A/SA 351	+AT	Investment Casting				
3.20	CF3M	ASTM A/SA 351	+AT	Investment Casting				
3.21	CF8	ASTM A/SA 351	+AT	Investment Casting				
3.22	CF8M	ASTM A/SA 351	+AT	Investment Castings				

* +AT = Lösungsgeglüht / solution annealed, +N = normalgeglüht, normalisierend umgeformt / normalized forming, +U = unbehandelt / untreated, +NT = normalgeglüht und angelassen / normalized and tempered, +QT = vergütet / quenched and tempered, +M = thermomechanisch umgeformt / thermo mechanical formed, +AR = wie gewalzt / as rolled, +SR = spannungsarmgeglüht / stress relieved, +A = weichgeglüht / soft annealed, +CR = kaltgewalzt / cold rolled (weitere Symbole / other symbols: EN 10027-1, Tab. 18)

Notifizierte Stelle 0045 / Notified Body 0045

Geltungsbereich der Überprüfung gemäß / Scope of Approval according to

Richtlinie 2014/68/EU, Anhang I, Nummer 4.3 / Directive 2014/68/EU, Annex I, Point 4.3.

AD 2000-Merkblatt W 0 / AD 2000-Merkblatt W 0

Firma / Company: Invac Cast Limited

Ort / Location: Survey No: 444 to 453 & 455,
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					Dicke Thickness [mm]	Ø / Gewicht Ø / Weight [kg]		
3.23	LCB	ASTM A/SA 352	+N+QT	Investment Castings	Max 65mm	Max 75 Kgs.		If use in area of PED 2014/68/EU a Particular Material Appraisal(PMA) is necessary
3.24	LCC	ASTM A/SA 352	+N+QT	Investment Castings				
3.25	Cu5MCuC	ASTM A/SA 494	+AT+Stabilized	Investment Castings				
3.26	CW6MC	ASTM A/SA 494	+AT	Investment Castings				
3.27	4A	ASTM A/SA 890/995	+AT	Investment Castings				
3.28	5A	ASTM A/SA 890/995	+AT	Investment Castings				
3.29	6A	ASTM A/SA 890/995	+AT	Investment Castings				

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