

CERTIFICATE

Specific Assessment for Materials as per
Pressure Equipment (Safety) Regulations 2016 No. 1105 Amended
Schedule 2, Part 4, Clause 31 (8).

This is to certify that

Invac Cast Limited
Survey No.: 444 to 453 & 455
Vadodara – Mumbai NH No.8
Nana Fofadiya Road
Karjan, Vadodara, Gujarat 391-210, India.

Has successfully undergone a specific assessment for materials manufacture under the requirement of the Pressure Equipment (Safety) Regulations 2016 No. 1105 Amended. The Material Manufacturer has implemented, operates and maintains a Quality Assurance System in accordance with Schedule 2, Part 4, Clause 31 (8).

Invac Cast Limited are authorised to issue certificates of specific product control, within the scope of assessment as shown in **Annex A**.

This certificate, which remains the property of TÜV UK Ltd, was issued in accordance with the TÜV UK Ltd auditing and certification procedures, and its validity is subject to regular surveillance audits under the requirement of the Pressure Equipment (Safety) Regulations 2016 No. 1105 Amended providing certificates are not withdrawn or expired.

Certificate No. **0879-PESR-31(8)-22536-IN**

Valid until: **31 January 2025**

Initial certification: 27 October 2022

Signed for and on behalf of TÜV UK Ltd,

London, *Date* **27 October 2022**



P Ward
Managing Director



S Worrall
Peer Reviewer

Certificate No. 0879-PESR-31(8)-22536-IN

Annex A - Page 1 of 2

Scope of Approval: Manufacture and supply of investment castings. This approval includes for minor welding repairs during production but excludes welding of permanent joints.		TÜV UK Ltd TÜV NORD GROUP AMP House Suites 27-29, Fifth Floor Dingwall Road, Croydon, CR0 2LX	
Manufacturer	Name	Invac Cast Limited	
	Address	Survey No.: 444 to 453 & 455 Vadodara – Mumbai NH No.8 Nana Fofadiya Road Karjan, Vadodara, Gujarat 391-210, India.	
		The Certification Body - TÜV Nord Cert GmbH Langemarckstrasse 20 45141 Essen Germany Cert No. 04 100 18391817	
Materials (Steels)	Ferrous and Non-Ferrous Investment Castings as listed below		
Material Specification	Grades	Types	
EN 10213	1.0619	Normalised ⁽¹⁾ Quench & Tempered ⁽¹⁾	
EN 10213	1.4308	Solution Annealed ⁽¹⁾	
EN 10213	1.4408	Solution Annealed ⁽¹⁾	
EN 10213	1.7357	Normalised ⁽¹⁾ Quench & Tempered ⁽¹⁾	
ASTM A216 ASME SA216	WCB	Normalised ⁽¹⁾	
ASTM A216 ASME SA216	WCC	Normalised ⁽¹⁾	
ASTM A217 ASME SA217	CA15	Normalised & Tempered ⁽¹⁾	
ASTM A487 ASME SA487	CA15 B & C	Normalised ⁽¹⁾ Quench & Tempered ⁽¹⁾	
ASTM A217 ASME SA217	WC6	Normalised & Tempered ⁽¹⁾	
ASTM A351 ASME SA351	CN7M	Solution Annealed ⁽¹⁾	
ASTM A351 ASME SA351	CK3MCuN	Solution Annealed ⁽¹⁾ Stabilised ⁽¹⁾	
Remarks	(1) Dimensions <= 65mm thickness, 75kg Max weight. Minor welding repairs during production are permitted but excludes welding of permanent joints.		

Certificate No. 0879-PESR-31(8)-22536-IN

Annex A - Page 2 of 2

Materials (Steels)	Ferrous and Non-Ferrous Investment Castings as listed below	
Material Specification	Grades	Types
ASTM A351 ASME SA351	CF8C	Solution Annealed ⁽¹⁾
ASTM A351 ASME SA351	CF3	Solution Annealed ⁽¹⁾
ASTM A351 ASME SA351	CF3M	Solution Annealed ⁽¹⁾
ASTM A351 ASME SA351	CF8	Solution Annealed ⁽¹⁾
ASTM A351 ASME SA351	CF8M	Solution Annealed ⁽¹⁾
ASTM A352 ASME SA352	LCB	Normalised ⁽¹⁾ Quench & Tempered ⁽¹⁾
ASTM A352 ASME SA352	LCC	Normalised ⁽¹⁾ Quench & Tempered ⁽¹⁾
ASTM A494 ASME SA494	CU5MCuC	Solution Annealed ⁽¹⁾ Stabilised ⁽¹⁾
ASTM A494 ASME SA494	CW6MC	Solution Annealed ⁽¹⁾
ASTM A890/A995 ASME SA890/SA995	4A	Solution Annealed ⁽¹⁾
ASTM A890/A995 ASME SA890/SA995	5A	Solution Annealed ⁽¹⁾
ASTM A890/A995 ASME SA890/SA995	6A	Solution Annealed ⁽¹⁾

Remarks	(1) Dimensions <= 65mm thickness, 75kg Max weight. Minor welding repairs during production are permitted but excludes welding of permanent joints.
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Signed:-



S Worrall
Peer Reviewer

Date: 27 October 2022