

CERTIFICATE

TÜV NORD Systems GmbH & Co. KG

certifies that the company

SANDORI CASTINGS PVT. LTD.

**Survey No. 188, Plot No. 1, N/H-27, Gondal Road,
Veraval (Shapar), Tal. Kotda Sangani,
Dist. Rajkot - 360 024, Gujarat, INDIA**

has been verified and recognized as material manufacturer according to

AD 2000-Merkblatt W0

Certificate-No.: 07/203/1409/WP/1159/20

File No.: 811 848 4619

Production site: **See above**

The scope of approval is available in the annex scope of approval.

The company fulfils the following essential requirements:

Facilities for appropriate manufacturing and testing, appropriate procedures for manufacturing of the products, qualified personnel for manufacturing and testing of the products and a quality management system with appropriate records, which ensures proper manufacture of the products, as well as compliance with the requirements specified in the material specification.

This certificate is valid until

July 2023

Essen, 2020-07-25

Annex: scope of approval

Conventional Power Plants
Langemarckstr. 20
45141 Essen

Phone: 201-825-2722
Fax: 201-825-2858
E-Mail: DNiekamp@tuev-nord.de




Niekamp

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

CERTIFICATE

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

Certificate no.: 07/202/1409/WZ/1159/20

**Name and address
of the manufacturer:** SANDORI CASTINGS PVT. LTD.
Survey No. 188, Plot No. 1, N/H-27, Gondal Road,
Veraval (Shapar), Tal. Kotda Sangani,
Dist. Rajkot - 360 024, Gujarat, 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.: **811 848 4619**

Audit report file no.: **811 819 1114**

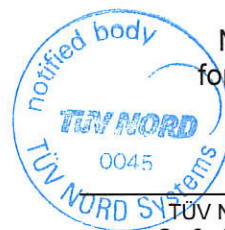
Scope of approval:
(product / material) **Manufacturer & Supply of Machined & Unmachined
Investment Castings**

Production site: Survey No. 188, Plot No. 1, N/H-27, Gondal Road,
Veraval (Shapar), Tal. Kotda Sangani,
Dist. Rajkot - 360 024, Gujarat, INDIA

The certificate is valid until: **July 2023**

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

Essen, 2020-07-25



Notified Body (0045)
for Pressure Equipment


Niekamp

Annex: Scope of Approval

Conventional Power Plants
Langemarckstr. 20
45141 Essen

Phone 201-825-2722
Fax 201-825-2858
e-mail dniekamp@tuev-nord.de

Member of



CONFÉDÉRATION EUROPÉENNE D'ORGANISMES DE CONTRÔLE

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

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: SANDORI CASTINGS PVT. LTD.

Ort / Location: Survey No.188, Plot No. 1, NH-27, Gondal Road,
Veraval(Shapar), Tal.Kotla Sangani,
Dist. Rajkot-360 024, Gujarat, INDIA

Zertifikat-Nr. / Certificate No.: 07 202 1409 WZ 1159 20

Zertifikat-Nr. / Certificate No.: 07 203 1409 WP 1159 20

Datum / Date: 25.07.2020

AZ / File No.: 115920/20

SAP-Nr.: 0045 811848 4619



K. Niekamp
Niekamp

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	1.4309	EN 10213	+AT	Investment Castings	Maximum 50 mm	Maximum 120 Kgs	Directive 2014/68/EU	Certified acc. to PED annex 1, pt 4.3 by the Notified Body of TÜV NORD Systems (Reg. no. 0045)
1.12	1.4409	EN 10213	+AT					
1.13	1.4469	EN 10213	+AT					
1.14	1.4470	EN 10213	+AT					
1.15	1.4517	EN 10213	+AT					
1.16	1.0625	EN 10213	N					
1.17	1.4011	EN 10283	QT	Investment Castings	Maximum 50 mm	Maximum 120 Kgs		With PMA for use in area of PED
1.18	1.4412	EN 10283	AT					With PMA for use in area of PED
1.19	1.4527	EN 10283	AT					With PMA for use in area of PED
2.11	1.0619	EN 10213	N,+QT	Investment Castings	Maximum 50 mm	Maximum 120 Kgs	Directive 2014/68/EU AD 2000 Merkblatt W5	*1 With Inspection Certificate 3.2 Approved WPS in area of AD 2000 are: WPS/EN/SS/SL/01 Rev. 0 WPS/EN/CS/SL/02 Rev. 0 WPS/EN/DS/SL/03 Rev. 0 WPS/EN/NI/SL/04 Rev. 0
2.12	1.1131*1	EN 10213	QT					
2.13	1.6220*1	EN 10213	QT					
2.14	1.7357*1	EN 10213	QT					
2.15	1.4552	EN 10213	AT					
2.16	1.4581	EN 10213	AT					
3.11	1.4408	EN 10213	+AT	Investment Castings	Maximum 50 mm	Maximum 120 Kgs	Directive 2014/68/EU AD 2000 Merkblatt W5/W10	With Inspection certificate 3.2 in acc. with EN 10204 for use in area of AD 2000 W10
3.12	1.4308	EN 10213	+AT					

*+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

Systems

Zertifikat-Nr. / Certificate No.: 07 202 1409 WZ 1159 20
 Zertifikat-Nr. / Certificate No.: 07 203 1409 WP 1159 20

Firma / Company: SANDORI CASTINGS PVT. LTD.

Ort / Location: Survey No.188, Plot No. 1, N/H-27, Gondal Road,
 Veraval(Shapar), Tal.Kotda Sangani,
 Dist. Rajkot-360 024, Gujarat, INDIA

Datum / Date: 25.07.2020

AZ / File No.: JSIPC-770/20
 SAP-No./ID System: 811 848 4619

Niekamp

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]		
4.11	WCB	AISA 216	+N,+QT	Investment Castings	Maximum 50 mm	Maximum 120 Kgs		
4.12	WCC	AISA 216	+N,+QT					
4.13	WC6	AISA 217	+NT					
4.14	CA-15	AISA 217	+NT					
4.15	CF8	AISA 351/743	+AT					
4.16	CF8M	AISA 351/743	+AT					
4.17	CF3	AISA 351/743	+AT					
4.18	CF3M	AISA 351/743	+AT					
4.19	CN7M	AISA 351/743	+AT					
4.20	CG8M	AISA 351/743	+AT					
4.21	CF8C	AISA 351/743	+AT					
4.22	CK3MCuN	AISA 351/743	+AT					
4.23	LCB	AISA 352	+QT					
4.24	LCC	AISA 352	+QT					
4.25	LC1	AISA 352	+QT					
4.26	CB7Cu1	AISA 747	AT & Precipitation Hardening					
4.27	CW12MW	AISA 494	+AT					
4.28	Cu5MCuC	AISA 494	+AT & Stabilizing					
4.29	CD3MWCuN (6A)	AISA 890/995	+AT					
4.30	CW6M	AISA494	+AT					
4.31	CW6MC	AISA 494	+AT					
4.32	M35	AISA -494	As Cast					
4.33	CD4MCuN	AISA-890/995	+AT					
4.34	4A(CD3MN)	AISA-890/995	+AT					

If use in area of PED 2014/68/EU a
 Particular Material Appraisal (PMA) is necessary

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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.

Zertifikat-Nr. / Certificate No.: 07 202 1409 WZ 1159 20

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

Zertifikat-Nr. / Certificate No.: 07 203 1409 WP 1159 20

Firma / Company: SANDORI CASTINGS PVT. LTD.

Datum / Date: 25.07.2020

Ort / Location: Survey No.188, Plot No. 1, NH-27, Gondal Road,
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AZ / File No.: IS/PC-770/20
SAP-No.: 811 848 4619

Niekamp



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]		
4.35	5A(CE3MN)	A/SA-890/995	+AT					
4.36	CZ100	A/SA -494	As Cast					
4.37	CX2MW	A/SA -494	AT					

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