CERTIFICATE

Certificate No.: 07/203/1409/WP/0897/22

TÜV NORD Systems GmbH & Co. KG certifies that the manufacturer

Britex Engineering Works

Plot No. R-209 & W383, Rabale MIDC

T.T.C. Industrial Area, Thane-Belapur Road

Navi Mumbai 400701, Maharashtra, INDIA

has been verified and recognized as

material manufacturer acc. to AD 2000-Merkblatt W 0

in accordance with the requirements of the certification scheme TNS-AD2000-W0.

Details can be found in the report and the scope of approval.

The manufacturer has the following prerequisites:

- equipment for proper manufacturing and testing,
- suitable procedures for the manufacture of the products,
- skilled personnel for the manufacture and testing of the products, and
- a quality management system with appropriate records that ensures proper manufacture of the products and compliance with the requirements specified in the material specification.

Manufacturing site: See Above

Validity:	July 2022 until July 2025
Date of issue	30.07.2022
Audit report No.:	812 131 4733
Annex:	Scope

Hübinger

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Große Bahnstraße 31, D-22525 Hamburg

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45307 Essen

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CERTIFICATE

Quality management system for material manufacturer

in accordance with the requirements of

Pressure Equipment Directive 2014/68/EU

Certificate No.:	**0045/202/1409/WZ/0897/22**
Name and address of manufacturer:	**Britex Engineering Works** **Plot No. R-209 & W383, Rabale MIDC, T.T.C. Industrial Area** **Thane-Belapur Road, Navi Mumbai 400701** **Maharashtra, India**

This is to certify that the manufacturer has implemented and applies a **quality management system in relation to materials**. This QM system has been subject to specific verification in accordance with the requirements of Directive 2014/68/EU, Annex I, point 4.3 in relation to the materials. The manufacturer is entitled to issue certificates of specific tests on materials in accordance with the Pressure Equipment Directive and the underlying technical specifications.

Test specification:	**EN 764-5, section 4.2 & AD 2000-Merkblatt W0**
Audit report No.:	**812 131 4733**
Range of products:	**Manufacture of flange and forgings (forged)**
Place of manufacture:	**Plot No. R-209 & W383, Rabale MIDC, T.T.C. Industrial Area, Thane-Belapur Road, Navi Mumbai 400701 Maharashtra, India**
This certificate is valid until:	**July 2025**

30.07.2022

notified body TÜV NORD 0045 TÜV NORD Systems

Notified Body 0045 for pressure equipment

Hübinger

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

Attachment:

Contact:
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TÜV NORD Systems GmbH & Co. KG
Notifizierte Stelle 0045 / Notfified Body 0045

Geltungsbereich als Anlage zum Zertifikat / *Scope of Approval as annex to Certificate*

notified body TÜV NORD 0045 TÜV NORD Systems

Hübinger

TÜV NORD

[X] Richtlinie 2014/68/EU, Anh. I, Pkt. 4.3 / *Directive 2014/68/EU, Ann. I, Point 4.3.* Zertifikat-Nr. / *Certificate No.:* **0045 202 1409 WZ 0897/22**

[X] AD 2000-Merkblatt W 0 / *AD 2000-Merkblatt W 0* Zertifikat-Nr. / *Certificate No.:* **07 203 1409 WP 0897/22**

Firma / *Company:Britex Engineering Works*	**Ort / *Location:Plot No.R-209 & W-383, Rabale***	**AZ / *File No.:***	**SAP-No.**	**Date: 30.07.2022**
	MIDC, T.T.C, Industrial Area,Thane-Belapur Road, Navi Mumbai-400701, India India.	**ISIPW-129/23**	**812 131 4733**	

Nr. *No.*	Werkstoffbezeichnung *Material designation*	Spezifikation *Specification*	Lieferzustand* *Delivery cond.**	Erzeugnisform *Product type*	Abmessungen *Dimensions* Dicke *Thickness* [mm]	Ø / Gewicht *Ø / Weight* [mm] / [kg]	Prüfgrundlagen *Test specifications*	Bemerkungen *Remarks*
1	2	3	4	5	6	7 / 8	9	10
1	Werkstoffe nach harmonisierten Normen (2014/68/EU) / *Materials according to harmonized standards (2014/68/EU)*							
1.1	**X5CrNi18-10 / 1.4301**	EN 10222-5	+AT	Flanges	≤250	**DN 15 to DN 600 PN 10 to PN 160**	**Directive 2014/68/EU AD2000 Merkblatt W2**	**Certified acc. To PED annex I, pt, 4.3 by the Notified Body of TUV NORD Systems (Reg. no. 0045) If Thickness is greater than** › 30mm Inspection cert. 3.2 is necessary.
1.2	**X2CrNi18-9 / 1.4307**	EN 10222-5	+AT	Flanges	≤250			
1.3	**X6CrNi18-11 / 1.4948**	EN 10222-5	+AT	Flanges	≤250			
1.4	**X5CrNiMo17-12-2 / 1.4401**	EN 10222-5	+AT	Flanges	≤250			
1.5	**X2CrNiMo17-12-2 / 1.4404**	EN 10222-5	+AT	Flanges	≤250			
1.6	**X6CrNiTi18-10 / 1.4541**	EN 10222-5	+AT	Flanges	≤250			
1.7	**X6CrNiMo18-10 / 1.4550**	EN 10222-5	+AT	Flanges	≤250			
1.8	**X6CrNiMoTi17-12-2 / 1.4571**	EN 10222-5	+AT	Flanges	≤250			
1.9	**P250GH / 1.0460**	**DIN EN 10222-2 National Annex NB**	**N**	**Flanges**	≤250		**Directive 2014/68/EU AD2000 Merkblatt W9 AD2000 Merkblatt W13**	
2.1	**F304**	ASME SA182	+AT	Flanges	≤250	**1 / 2" to 24" 150# to 2500#**		**If use in area of PED 2014/68/EU a Particular Material Appraisal (PMA) is required.**
2.2	**F304L**	ASME SA182	+AT	Flanges	≤250			
2.3	**F304H**	ASME SA182	+AT	Flanges	≤250			
2.4	**F316**	ASME SA182	+AT	Flanges	≤250			

TÜV NORD Systems GmbH & Co. KG
Notifizierte Stelle 0045 / Notfified Body 0045

Geltungsbereich als Anlage zum Zertifikat / *Scope of Approval as annex to Certificate*

notified body TÜV NORD 0045 TÜV NORD Systems

Hübinger

TÜV NORD

[X] Richtlinie 2014/68/EU, Anh. I, Pkt. 4.3 / *Directive 2014/68/EU, Ann. I, Point 4.3.* Zertifikat-Nr. / *Certificate No.:* **0045 202 1409 WZ 0897/22**

[X] AD 2000-Merkblatt W 0 / *AD 2000-Merkblatt W 0* Zertifikat-Nr. / *Certificate No.:* **07 203 1409 WP 0897/22**

Firma / *Company:Britex Engineering Works*	Ort / *Location:Plot No.R-209 & W-383, Rabale*	AZ / *File No.:*	SAP-No.	Date: 30.07.2022
	MIDC, T.T.C, Industrial Area,Thane-Belapur Road, Navi Mumbai-400701, India India.	ISIPW-129/23	812 131 4733	

Nr. *No.*	Werkstoffbezeichnung *Material designation*	Spezifikation *Specification*	Lieferzustand* *Delivery cond.**	Erzeugnisform *Product type*	Abmessungen *Dimensions* Dicke *Thickness* [mm]	 Ø / Gewicht *Ø / Weight* [mm] / [kg]	Prüfgrundlagen *Test specifications*	Bemerkungen *Remarks*
1	2	3	4	5	6	7 / 8	9	10
2	Werkstoffe nach AD 2000 / *Materials according to AD 2000*							
2.5	F316L	ASME SA182	+AT	Flanges	≤ 250	½" to 24" 150# to 2500#		If use in area of PED 2014/68/EU a Particular Material Appraisal (PMA) is necessary
2.6	F321	ASME SA182	+AT	Flanges	"	"		
2.7	F347	ASME SA182	+AT	Flanges	"	"		
2.8	F316Ti	ASME SA182	+AT	Flanges	"	"		
2.9	F51	ASME SA182	+AT	Flanges	"	"		
2.10	F60	ASME SA182	+AT	Flanges	"	"		
2.11	F51	ASME SA182	+NT/+QT	Flanges	"	"		
2.12	F5	ASME SA182	+NT/+QT	Flanges	"	"		
2.13	F9	ASME SA182	+NT/+QT	Flanges	"	"		
2.14	F11 (Class 1,2,3)	ASME SA182	+NT/+QT	Flanges	"	"		
2.15	F12 (Class 1,2)	ASME SA182	+NT/+QT	Flanges	"	"		
2.16	F91	ASME SA182	+NT	Flanges	"	"		
2.17	F22 (Class 1,3)	ASME SA182	+NT	Flanges	"	"		
2.18	SA105	ASME SA105	+N	Flanges	"	"		
2.19	LF2	ASME SA350	+QT	Flanges	"	"		

Erläuterung / *Explanation:*

* +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)