## Certificate

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

Certificate no.: 01 202 IND/Q-18 0014

Name and address of the certificate holder:

BF Industrial Technology & Solutions Limited 244/6, GIDC Indl. Estate, Waghodia Vadodara 391760, India

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 and

AD 2000-Merkblatt W0

Audit report no.: 01 202 IND/Q-18 0014

Scope: "Manufacturer of Closed die & Open die forgings in Stainless Steel,

Carbon Steel and Alloy Steel", see annex, 11-02-2022, Rev.:2,

to certificate

Manufacturing plant: see certificate holder

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

Cologne, 2022-03-03

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





Sco <sub>l</sub>	pe ording to	☐ Directive Annex I §	2014/68/EU §4.3		☐ EN 764	4-4				2000- rkblatt W0		Regulation No. 305/	on (EU) 2011(System 2+)
		Manufactui	er			Work			Nationality	Date	Pa	age No	
			gy & Solutions Limite DC Industrial Estate	ed		Estate,Wag	hodia,	;	India	11-02-22		1	TÜV Rheinland Industrie Service
	Waghodia,	Vadodara 391760			vado	dara 39176	U			Rev.: 2	of:	4	GmbH
Cur		ials-term rials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dim	ensions		Weight max	Technical Specification	ns		Remarks
						Thick- ness mm		Ø I <b>m</b>	1=t /	Requirement Technical	ts		
						from Up		Up	2=kg	Regulations	3		
				4	5	6a 6b	7a	to 7b	8a 8b	9			10
The u	se of the materia	als according to Dire	3 onized Europear ctive 2014/68/EU is bo manufacturing reliabi	und to the p	rds (hEN) and	Europea	n App	roval	for Materi	als (EAM) a	Europea	an material a	pproval or to the
The u	se of the materia	ording to harmals according to Directorals al. With that the	onized Europear	n standar und to the p lity for equiv	rds (hEN) and publication of Harmovalent material grad	Europea onized Euro les accordir	n App pean Sta	roval andards er stan	for Materi	als (EAM) a	Europea	an material a	
The u	se of the materia cular material app applicable code	ording to harmals according to Directorals al. With that the respectively the PE	onized Europear ctive 2014/68/EU is bo manufacturing reliabi D must be observed fo	n standar und to the p ility for equiv or the use of	rds (hEN) and publication of Harm- valent material grades list	Europea onized Euro les accordir	n App pean Stang to other nn 2 to 4	roval andards er stand	for Materi s or to the qua dards (e.g. BS	als (EAM) a	Europea	an material a	pproval or to the
The upartic	se of the materia cular material app applicable code 1.	ording to harmonials according to Directoralsal. With that the respectively the PE	onized European ctive 2014/68/EU is bo manufacturing reliabi D must be observed for EN 10222-5	n standar und to the p dity for equiv or the use of	rds (hEN) and publication of Harmovalent material grad	Europea onized Euro les accordir	pean Stang to other 2 to 4	roval andards er stand	for Materi s or to the qua dards (e.g. BS	als (EAM) a	Europea	an material a	pproval or to the
The u	se of the materia cular material app applicable code 1.	ording to harmals according to Directorals al. With that the respectively the PE	onized Europear ctive 2014/68/EU is bo manufacturing reliabi D must be observed fo	n standar und to the p ility for equiv or the use of	rds (hEN) and publication of Harm- valent material grades list	Europea onized Euro les accordir	n App pean Stang to other nn 2 to 4	roval andards er stand	for Materi s or to the qua dards (e.g. BS	als (EAM) a	Europea	an material a	pproval or to the
The upartic	se of the material applicable code	ording to harmonials according to Directoralsal. With that the respectively the PE	onized European ctive 2014/68/EU is bo manufacturing reliabi D must be observed for EN 10222-5	n standar und to the p dity for equiv or the use of	rds (hEN) and publication of Harmovalent material grades list	Europea onized Euro les accordir	pean Stang to other 2 to 4	roval andards er stand	for Materi s or to the qua dards (e.g. BS	als (EAM) a	Europea	an material a	pproval or to the



Scop	pe ording to	Directive Annex I §	2014/68/EU 4.3		☐ EN 764	4-4				$\boxtimes$		O 20 erkb	00- latt W0		Regulatio No. 305/2	n (EU) 2011(System 2+)
		Manufactur	er			Work				N	ationalit	ty	Date	Р	age No	
	tion: 244/6-7, 14	01, 1402, 1403 GID	gy & Solutions Limite C Industrial Estate	d	244/6-7, 140 Industrial E		Nagh	odia,			India		11-02-22		2	TÜV Rheinland Industrie Service
		Vadodara 391760												of:	4	GmbH
Cur -		als-term ials-No.	Material Specification	Delivery Cond.	Article Type of Product		Dime	nsions		V	/eight max	S	Technical pecification	s	l	Remarks
						Thic nes mr	SS	∠ mr			1=t /		equirement Technical	s		
						from	Up to	from	Up to		2=kg		Regulations	;		
1		2	3	4	5	6a	6b	7a	7b	88			9			10
2. M	aterials acco	ording to the Al	D 2000-Code					•								
partic	ular material app	raisal. With that the	R 2014/68/EU is bound manufacturing reliabil D must be observed fo	ity for equiv	alent material grad	les acco	ording	to othe	r stan	or to t	the quali	ificati BS, Al	on by a Eur FNOR, ASM	opean E) is p	material appr roved. The req	oval or to the uirements and limits
4	1.4541,1.457	4,1.4406,1.4401 1,1.4307,1.4311 4948	EN 10222-5	AT	Flanges Bars Forgings				2500 1500 3000	)		AD:	2000 W2/W			2 ABS86 ST
Rema		= as rolled = thermo mechan			+QT = quenche +S = sof		l and aled	l tempei tempere					a =			n pressure equipment 68/EU neccessary



Scor	pe ording to	Directive Annex I §	2014/68/EU 4.3		☐ EN 76	4-4			$\boxtimes$		2000- rkblatt W0		Regulation No. 305/	on (EU) 2011(System 2+)
		Manufactur	er			Work			Nat	ionality	Date	Page	e No	
-	•	Industrial Technolo 101, 1402, 1403 GIE	gy & Solutions Limite OC Industrial Estate	ed		Estate,Wa	ghodia,		ı	ndia	11-02-22	;	3	TÜV Rheinland Industrie Service
	Waghodia,	, Vadodara 391760			Vado	dara 39176	50				Rev.: 2	of:	4	GmbH
Cur		rials-term rials-No.	Material Specification	Delivery Cond.	Article Type of Product	Din	nensions	•		ight nax	Technical Specification	s		Remarks
						Thick- ness		Ø	4		Requirement	s		
						from U		um Up		t / kg res	Technical Regulations	;		
4		0	3	4	5	6a 6k		to 7b	0-	ult 8b	9			10
ı						L		70	8a	OD	9			10
The u	se of the materia	als according to DGF praisal. With that the	ational standar R 2014/68/EU is bound manufacturing reliabi D must be observed for	I to the pub	lication of Harmoni valent material grad	zed Europe des accordi	an Stand	er stand						proval or to the quirements and limits
The u partic of the	se of the materia cular material app applicable code	als according to DGF praisal. With that the e respectively the PE	R 2014/68/EU is bound manufacturing reliab	I to the pub	lication of Harmoni valent material grad	zed Europe des accordi	an Stand	er stand				E) is prove	ed. The re	quirements and limits
The u	rse of the material applicable code  F304,F3 F316,F3 F310,310H,F3	als according to DGF praisal. With that the e respectively the PEI 304L,F304H 316L,F316H 348,F348H,F309H	R 2014/68/EU is bound manufacturing reliab	I to the pub	lication of Harmoni valent material grad f material grades lis	zed Europe des accordi	an Stand ng to oth mn 2 to 4	er stand				E) is prove	A for the t	
The u partic of the	F304,F3 F310,310H,F3 F3,F9,F1	als according to DGF praisal. With that the e respectively the PEI 304L,F304H 316L,F316H 348,F348H,F309H 1H,F347,F347H 11,F12, F 6A	R 2014/68/EU is bound manufacturing reliabl D must be observed fo	I to the pub ility for equi- or the use of	lication of Harmoni valent material grad f material grades lis	zed Europe des accordi	an Standing to other 2 to 4	2500				E) is prove	A for the uipment in	quirements and limits use in pressure
The u partic of the	F304,F3 F310,310H,F3 F3,F9,F1	als according to DGF praisal. With that the e respectively the PEI 304L,F304H 316L,F316H 348,F348H,F309H 1H,F347,F347H	R 2014/68/EU is bound manufacturing reliabl D must be observed fo	I to the pub ility for equi- or the use of	lication of Harmoni valent material grad f material grades lis	zed Europe des accordi	an Stand ng to oth mn 2 to 4	er stand				E) is prove	A for the uipment in	quirements and limits use in pressure
The u partic of the	F304,F3 F310,310H,F3 F317,F32 F317,F32 F317,F32	als according to DGF praisal. With that the e respectively the PEI 304L,F304H 316L,F316H 348,F348H,F309H 1H,F347,F347H 11,F12, F 6A	R 2014/68/EU is bound manufacturing reliabl D must be observed fo	I to the pub ility for equi- or the use of	lication of Harmoni valent material grad f material grades lis	zed Europe des accordi	an Standing to other 2 to 4	2500				E) is prove	A for the uipment in	quirements and limits use in pressure
The u partic of the	F304,F3 F310,310H,F3 F321,F32 F5,F9,F1 F 51 / F	als according to DGF praisal. With that the e respectively the PEI 304L,F304H 316L,F316H 348,F348H,F309H 1H,F347,F347H 11,F12, F 6A F 53 / F 55	R 2014/68/EU is bound manufacturing reliable D must be observed for ASTM A 182	I to the pub ility for equiv or the use of	lication of Harmoni valent material grad f material grades lis Flanges Bars	zed Europe des accordi	12.5	2500 1500				E) is prove	A for the uipment in	quirements and limits use in pressure
The upartic of the	F304,F3 F310,310H,F3 F317,F32 F5,F9,F1 F 51 / F	als according to DGF praisal. With that the e respectively the PEI 304L,F304H 316L,F316H 348,F348H,F309H 1H,F347,F347H 11,F12, F 6A F 53 / F 55	ASTM A 965	AT	lication of Harmoni valent material grad f material grades lis Flanges Bars	zed Europe des accordi	12.5	2500 1500				E) is prove	A for the uipment in	quirements and limits use in pressure
The u partic of the	F304,F3 F310,310H,F3 F317,F32 F5,F9,F1 F 51 / F	als according to DGF praisal. With that the prespectively the PEI 304L,F304H B16L,F316H B48,F348H,F309H 1H,F347,F347H B11,F12, F 6A F 53 / F 55 B4,F316 A105 LF2	ASTM A 105 ASTM A 350 ASTM A 182	AT  AT	Flanges Bars Forgings	zed Europe des accordi sted in colu	12.5 100 12.5	2500 1500 3000				E) is prove	A for the uipment in	quirements and limits use in pressure
The u partic of the	F304,F3 F304,F3 F316,F3 F310,310H,F3 F321,F32 F5,F9,F1 F 51 / F	als according to DGF praisal. With that the prespectively the PE 304L,F304H 816L,F316H 848,F348H,F309H 11,F12, F 6A F 53 / F 55 94,F316 84105   LF2 22,F91 = solution anneal	ASTM A 105 ASTM A 350 ASTM A 182  ASTM A 182	AT  AT  N  N	Flanges Bars Forgings  +NT = no +QT = qu	zed Europe des accordi	12.5 100 12.5 and temped temper	2500 1500 3000			S, AFNOR, ASM	PM/ equ nec	A for the upper the use	quirements and limits use in pressure



Sco	pe ording to	Directive Annex I §	2014/68/EU §4.3		□ EN 76	4-4				2000- kblatt W0		Regulati No. 305/	on (EU) /2011(System 2+)
		Manufactur	er			Work			Nationality	Date	Pa	ige No	
		Industrial Technolo 101, 1402, 1403 GID	gy & Solutions Limite DC Industrial Estate	ed		Estate,Wagh	nodia,		India	11-02-22		4	TÜV Rheinland Industrie Service
	Waghodia	, Vadodara 391760			Vado	dara 391760	)			Rev.: 2	of:	4	GmbH
Cur -		rials-term rials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dime	ensions		Weight max	Technical Specification	ns		Remarks
						Thick- ness mm	Ø mm		1=t /	Requiremen Technical			
						from Up		Up to	2=kg	Regulations	5		
		2	3	4	5	6a 6b		7b	8a 8b	9			10
The u	use of the materia	ording to internals according to DGF praisal. With that the	national standard	I to the pub	lication of Harmoni valent material grac	zed Europea les accordin	n Standard g to other	ds or stand	to the qualific lards (e.g. BS	cation by a Eur	ropean r IE) is pro	material app oved. The re	proval or to the equirements and limits
The u	use of the materia	ording to internals according to DGF praisal. With that the	national standard R 2014/68/EU is bound manufacturing reliabi	I to the pub	lication of Harmoni valent material grac	zed Europea les accordin	n Standard g to other	ds or t	to the qualific lards (e.g. BS	cation by a Eu 5, AFNOR, ASM	ropean r IE) is pro	material app oved. The re	proval or to the equirements and limits
The upartic	use of the material applicable code	ording to internals according to DGF praisal. With that the erespectively the PEI	R 2014/68/EU is bound manufacturing reliabi D must be observed for EN 10250-3	I to the pub ility for equiv or the use of	lication of Harmoni valent material grad f material grades lis	zed Europea les accordin	n Standard g to other s in 2 to 4.	stand	to the qualifi lards (e.g. BS	cation by a Eur	Pi ec	MA for the requipment in	proval or to the equirements and limits use in pressure Directive 2014/68/EU
The upartic	use of the material applicable code 1.7218,1.  UNS N0662	ording to internals according to DGF praisal. With that the respectively the PEI	national standare R 2014/68/EU is bound manufacturing reliabi D must be observed for	I to the pub ility for equiv or the use of	lication of Harmoni valent material grac	zed Europea les accordin	n Standard g to other s in 2 to 4.	stand	to the qualifi lards (e.g. BS	cation by a Eur	Pi ec	MA for the	equirements and limits use in pressure
The upartic of the 10 11 12	use of the material applicable code applicable code 1.7218,1.  UNS N0662 UNS N010276	ording to internals according to DGF praisal. With that the respectively the PEI  7225,1.6582  5, UNS N06617  6,17–4 PH,15-5PH  N07718	national standard R 2014/68/EU is bound manufacturing reliabl D must be observed for EN 10250-3 ASTM B 564 ASTM B 637	I to the publility for equivor the use of	lication of Harmoni valent material grad f material grades lis Flanges	zed Europea les accordin	12.5 2	stand	to the qualifi	cation by a Eur	Pi ec	MA for the requipment in	equirements and limits use in pressure
The upartic of the	1.7218,1.  UNS N0662 UNS N010276  S 355 J2 0	ording to internals according to DGF praisal. With that the respectively the PEI 7225,1.6582 5, UNS N06617 6,17–4 PH,15-5PH	R 2014/68/EU is bound manufacturing reliabi D must be observed for EN 10250-3 ASTM B 564	I to the publility for equivor the use of	lication of Harmoni valent material grade f material grades lis Flanges Bars	zed Europea les accordin	12.5 2	2500 500	to the qualifi	cation by a Eur	Pi ec	MA for the requipment in	equirements and limits use in pressure
The upartic of the 10 11 12 13	1.7218,1.  UNS N0662 UNS N010276  S 355 J2 0	ording to internals according to DGF praisal. With that the respectively the PEI  7225,1.6582  5, UNS N06617  6,17–4 PH,15-5PH  N07718  G3,S235J2G3	national standard R 2014/68/EU is bound manufacturing reliabl D must be observed for  EN 10250-3  ASTM B 564  ASTM B 637  EN 10250-2	I to the publility for equivor the use of	lication of Harmoni valent material grade f material grades lis Flanges Bars	zed Europea les accordin	12.5 2	2500 500	to the qualifi	cation by a Eur	Pi ec	MA for the requipment in	equirements and limits use in pressure