Certifica	ate
	Quality management system for Manufacturer of Materials acc. to Directive 2014/68/EU
Certificate no.:	01 202 811/Q-00 0007.00
Name and address of the certificate holder:	Chr. Höver & Sohn GmbH & Co. KG Oberleppe 14 51789 Lindlar Germany 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, point 4.3, with regard to the materials
Test basis:	as listed in the scope of approval. QM System acc. to EN 764-5, Clause 4.2 and AD 2000-Merkblatt W0
Audit report no.: Scope:	01 202 811/Q-00 0007 Manufacturing of forgings and bars, see annex to certificate: 01 202 811/Q-00 0007, revision 1 from 25.06.2021
Manufacturing plant:	see certificate holder
Validity:	This certificate is valid to 2027-10-08. $2 V_{a} = \frac{1}{2} $
Cologne, 2024-10-08	Ines Krüger-Führ

TÜV Rheinland Industrie Service GmbH Notified Body for Pressure Equipment, ID-No. 0035 Am Grauen Stein, D-51105 Cologne

E-108a



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ac	Scope cording to	_	ctive 2014/68/E Annex I §4.3	U		EN 7	764-	4		\boxtimes	Ν	AD 2000- ⁄lerkblatt W0		Regulation (EU) /2011(System 2+)
		Manufacturer			V	Vork				Na	tionali	ty Date	Page No	
Nam	e: Chr. Höver a Oberleppe 2	& Sohn GmbH & Co 26	o KG, Leppe-Ede	lstahl	C	dto.				g	erman	25.06.2021	1	TÜV Rheinland Industrie Service
Locat	ion : 517	789 Lindlar										Rev. 1	from : 11	GmbH
Cur		rials-term erials-No.	Material Specification	Deliver y Cond.	Article Type of Product			ension		W ma	eight x	Technical Specifications	Rhein	Remarks
						Thio nes mr	SS		ð Im	-	=t /	Requirements Technical		
						from	Up	from	Up to	2 ↓	=kg	Regulations	austrial Servi	MAL
1	1 2 . Materials according to harm		3	4	5	6a	to 6b	7a	7b	8a	8b	9		10
1 M	atorials acco	ording to harmor	nized European	standa	ords (bEN) and E	uron	oan	Anni	levo	for	Mato	rials (FAM) ac	c Directive 2	014/68/EU
	plicable code re	nitic steels			naterial grades listed i forging bar				d		(e.g. в	EN10222-5	table 4	uirements and limits of
2	austenitic	e-ferritic steels	EN10222-5	+AT	ring forging bar		d		d			EN10222-5	table 4	
3	marter	nsitic steels	EN10222-5	+QT/ +T	ring forging bar		d		d			EN10222-5	table 4	
4	ferritic sta	ainless steels	EN 10272	+A	ring forging bar ring		d		d			EN 10272	table 7	
5	martensitic	stainless steels	EN 10272	+A/ +QT	forging bar ring		d		d			EN 10272	table 7	
<u>Rema</u>	<u>rks</u> +AT +P +M +N	 solution annealed precipitation hard thermo mechanic normalized or nor 	ened al treated	1	+NT = normaliz +QT = quenche +WW = hot solid +SR = stress re +A = anneale	ed and lified elieved	temp		I	<u> </u>		d =		n pressure equipment 68/EU neccessary echnical rules

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ac	Scope cording to	Dir Dir	ective 2014/68/E Annex I §4.3	EU		EN	764-	4		\square		AD 2000- /lerkblatt W0		Regulation (EU) /2011(System 2+)
		Manufacture	er		V	Vork				Na	tionalit	ty Date	Page No	
Nam	e: Chr. Höver Oberleppe 2		Co KG, Leppe-Ed	elstahl	C	dto.				g	erman	25.06.2021	2	TÜV Rheinland Industrie Service
Locat	ion: 517	789 Lindlar										Rev. 1	von : 11	GmbH
Cur		ials-term rials-No.	Material Specification	Delivery Cond.	Article Type of Product	ne	Dim ick- ess im	ensions پ m	Ø	ma: 1	eight x =t / =kg	Technical Specifications Requirements Technical Regulations	Liv Rhein/anda	merkungen
						from	Up to	from	Up to	↓	We rt	Ũ	a 3654 G	MAL
1	1 2 . Materials according to ha		3	4	5	6a	6b	7a	7b	8a	8b	9		10
6	austenitic st	tainless steels	EN 10272	+AT	forging bar		d		d			EN 10272	table 8	
6	austenitic st	tainless steels	EN 10272	+AT			d		d			EN 10272	table 8	
7		erritic stainless eels	EN 10272	+AT	forging bar ring		d		d			EN 10272	table 9	
8	with specifie	artensitic steels d properties at emperatures	EN10222-2	+A/ +NT/ +N/+QT	forging bar ring		d		d			EN10222-2	table 1	
9		for ihigh and low eratures	EN 10269	+N/ +NT/ +QT	forging bar ring		d		d			EN 10269	table 4	
<u>Rema</u>					+NT = normaliz +QT = quenche +WW = hot solid +SR = stress re +A = anneale	ed and lified elieve	d temp					d =	PMA for the use in in Directive 2014/ Dimensions in the t workhardened	n pressure equipment 68/EU neccessary echnical rules



a	Scope ccording to	Dir Dir	ective 2014/68/I Annex I §4.3	ΞU		EN 764	-4		\square	Ν	AD 2000- lerkblatt W0		Regulation (EU) /2011(System 2+)
		Manufacture	er		V	Vork			Nat	tionalit	y Date	Page No	
Nam	ne: Chr. Höver	& Sohn GmbH &	Co KG, Leppe-Ed	lelstahl	C	dto.			ge	erman	25.06.2021	3	TÜV Rheinland
	Oberleppe 2	26											Industrie Service
Loca	ition: 517	789 Lindlar									Rev. 1	von : 11	GmbH
Cur		rials-term rials-No.	Material Specification	Delivery Cond.	Article Type of Product	Din	nensions	3	We max	eight «	Technical Specifications	Be	merkungen
			·		51	Thick-	Q	ð			Requirements	JRhein/an	
						ness mm	mi	m	-	=t /	Technical		
						from Up to	from	Up to	↓	=kg We rt	Regulations	al 3654	MAL
1		2	3	4	5	6a 6b	7a	7b	8a	8b	9		10
The upartic	use of the materia cular material app	praisal. With that the	tive 2014/68/EU is b manufacturing relial	ound to the poility for equi	publication of Harmon	nized Europ s according	ean Star g to othe	ndards	or to	the qu	alification by a Eur	opean material ap	
The u partio the a	use of the materia cular material app pplicable code re	als according to Direc oraisal. With that the espectively the PED n	ctive 2014/68/EU is b manufacturing relial nust be observed for	ound to the bility for equi the use of n	publication of Harmon valent material grades naterial grades listed i	ized Europ s according in column 2	ean Star g to othe	ndards r stand	or to	the qu	alification by a Eur S, AFNOR, ASME) i	opean material ap s proved. The req	proval or to the
The upartic	use of the materia cular material app pplicable code re Screw steels temp	als according to Directoraisal. With that the	tive 2014/68/EU is b manufacturing relial	ound to the poility for equi	publication of Harmon	nized Europ s according	ean Star g to othe	ndards	or to	the qu	alification by a Eur	opean material ap	proval or to the
The u partio the a	use of the materia cular material app pplicable code re Screw steels temp -Eastitic stee	als according to Director praisal. With that the espectively the PED n for high and low eratures	ctive 2014/68/EU is b manufacturing relial nust be observed for	ound to the pility for equi the use of n +AT/ +C + P	publication of Harmon ivalent material grades naterial grades listed i forging bar	ized Europ s according in column 2	ean Star g to othe	ndards r stand	or to	the qu	alification by a Eur S, AFNOR, ASME) i	opean material ap s proved. The req	proval or to the
The upartion the a	use of the materia cular material app pplicable code re Screw steels temp -Eastitic stee Weldable fi	als according to Director praisal. With that the espectively the PED n for high and low eratures els + nickel alloy	tive 2014/68/EU is b manufacturing relial nust be observed for EN 10269 EN10222-4	ound to the pility for equi the use of n +AT/ +C + P +WW +N	publication of Harmon ivalent material grades naterial grades listed i forging bar ring forging bar	nized Europ s according in column 2 d	ean Star g to other 2 to 4.	ndards r stand d	or to	the qu	alification by a Eur S, AFNOR, ASME) i EN 10269 EN10222-4	table 4	proval or to the



	Scope cording to	Din Din	ective 2014/68/E Annex I §4.3	U		EN 7	' 64-	4		[X N	AD 2000- Ierkblatt W0		Regulation (EU) /2011(System 2+)
		Manufactur	er		V	Vork				ļ	Nationalit	y Date	Page No	
	Oberleppe 2	26	Co KG, Leppe-Ede	elstahl	(dto.					german	25.06.2021	4	TÜV Rheinland Industrie Service
Locati	on: 517	'89 Lindlar										Rev. 1	von : 11	GmbH
Cur		als-term ials-No.	Material Specification	Deliver y Cond.	Article Type of Product	Thic		ension	s Ø		Weight nax	Technical Specifications Requirements	Be	emerkungen
						from	SS		Up to		1=t / 2=kg ↓ We	Technical Regulations		
						nom	to	nom	Up to		U We t		Strial Set	
1		2	3	4	5	6a	6b	7a	7b	8	3a 8b	9		10
12		itic steels ferritic steels	EN10222-5 EN10222-5	+AT +AT	forging bar, flange ring forging		d d		d			AD2000-W2 AD2000-W9 AD2000-W2	table 1a, 1b	
12	Austen	itic steels	EN10222-5	+AT	bar, flange		d		d				table 1a, 1b	
14		itic steels	EN10272	+AT	bar, flange ring bar		d		d			AD2000-W9 AD2000-W2	table 1a, 1b	
15	ferritic stat	inless steels	EN 10272	+A	bar, flange		d		d			AD2000-W9 AD2000-W2 AD2000-W9	table 7	
16	Open die s	steel forgings	EN 10250-2	+N	forging bar, flange ring		d		d			AD2000-W13 AD2000-W9	table 1	
<u>Remar</u>	<u>ks</u> +AT +P +M +N	= solution annea = precipitation ha = thermo mecha = normalized or	ardened	1	+NT = normaliz +QT = quenche +WW = hot solid +SR = stress re +A = anneale	ed and lified elieved	temp		1	1		d =		n pressure equipment 68/EU neccessary technical rules



ac	Scope cording to	Dir Dir	ective 2014/68/E Annex I §4.3	EU		EN 7	′64- [,]	4			AD 2000- lerkblatt W0		Regulation (EU) /2011(System 2+)
		Manufactur	er		V	Vork				Nationality	Date	Page No	
	Oberleppe 2	26	Co KG, Leppe-Ed	lelstahl	(dto.				german	25.06.2021	5	TÜV Rheinland Industrie Service
Locat	ion: 517	789 Lindlar	Γ	1		1					Rev. 1	von : 11	GmbH
Cur		ials-term rials-No.	Material Specification	Delivery Cond.	Article Type of Product	Thic nes mn	ck- SS	ensions ຂ m	ð	Weight max 1=t / 2=kg	Technical Specifications Requirements Technical Regulations	Be	
	2 Materials according to tl					from	Up to	from	Up to	↓ We rt	-	strial Servi	NUL
1			3	4	5	6a	6b	7a	7b	8a 8b	9		10
17	austenitic st	tainless steels	EN 10272	+AT	forging bar, flange		d		d		AD2000-W13 AD2000-W9	table 2	
	•	•				olumn 2			d			table 2	
18		el steels	EN 10222-3	+AT	ring forging bar, flange ring		d		d		AD2000-W2 AD2000-W9	table 2	
19	with specifie	artensitic steels d properties at emperatures	EN10222-2	+AT	bar		d		d		AD2000-W2	table 1a, 1b, 7	lc
20		eels for high eratures	EN 10269	+QT	bar		d		d		AD2000-W7		
<u>Rema</u>	<u>rks</u> +AT +P +M +N	 solution annea precipitation ha thermo mechai normalized or n 	ardened		+NT = normaliz +QT = quenche +WW = hot solid +SR = stress re +A = anneale	ed and lified elieved	temp				in d = D		n pressure equipment 68/EU neccessary echnical rules



a	Scope ccording to	D D	irective 2014/68/I Annex I §4.3	EU		EN	764-	4		\boxtimes		AD 2000- erkblatt W0		Regulation (EU) /2011(System 2+)
		Manufactu	ırer		V	Vork				Nat	ionality	Date	Page No	
Nam	e: Chr. Höver	& Sohn GmbH &	& Co KG, Leppe-Ed	lelstahl		dto.				ge	erman	25.06.2021	6	TÜV Rheinland
	Oberleppe 2	26												Industrie Service
Loca	tion: 517	789 Lindlar										Rev. 1	von : 11	GmbH
•		ials-term	Material	Delivery	Article		Dim	ensions	5		eight	Technical	Be	merkungen
Cur	Mate	rials-No.	Specification	Cond.	Type of Product	Thi	ck-	C	Z	max	(Specifications Requirements	Rhein	
						ne		x				•	SAN A BR	
						m	m	m	m		=t / ⊧kg	Technical Regulations	$\left(= \left(\begin{array}{c} A \end{array} \right) \right)$	
						from	Up	from	Up to		We	Regulations	au 3654 c	MAL
		-					to				rt		1181 50	~
1		2	3	4	5	6a	6b	7a	7b	8a	8b	9		10
21		eels for low eratures	EN 10269	+QT	bar		d		d			AD2000-W7		
22	1.	7362	VdTÜV- sheet. 007/3	+A +QT	forging bar, flange ring		d		d			AD2000-W13		
23	1.	4922	VdTÜV- sheet. 110	+QT	forging bar ring		d		d			AD2000-W13		
24	1.49	986+wk	VdTÜV sheet. 113/2	+AT +wk	forging bar ring		d		d			AD2000-W2		
<u>Rema</u>					+NT = normaliz +QT = quench +WW = hot solid +SR = stress re	ed and dified	d temp					i d = 1		n pressure equipment 68/EU neccessary echnical rules



ac	Scope cording to		irective 2014/68/E Annex I §4.3	EU		EN 7	764-	4				ND 2000- erkblatt W0		Regulation (EU) /2011(System 2+)
		Manufactu	ırer		V	Vork				Na	tionality	Date	Page No	
Nam	e: Chr. Höver	& Sohn GmbH &	& Co KG, Leppe-Ed	elstahl	(dto.				g	erman	25.06.2021	7	TÜV Rheinland
	Oberleppe 2													Industrie Service
Locat	tion: 517	789 Lindlar										Rev. 1	von : 11	GmbH
Cur		ials-term rials-No.	Material Specification	Delivery Cond.	Article Type of Product	Thic nes mr	ck- ss		s Ø Im	ma 1	eight x =t / =kg	Technical Specifications Requirements Technical Regulations	ANRhein/an	ermerkungen
						from	Up to	from	Up to		We	Regulations	al 3654	MUUL
1		2	3	4	5	6a	6b	7a	7b	8a	-	9		10
25	3.	7035	VdTÜV- sheet. 230/3	+A	forging bar ring		d		d			AD2000-W0		
26	2.	4360	VdTÜV- sheet. 263	+A	ring forging bar		d		d			AD2000-W2		
27	2.	4816	VdTÜV- sheet. 305	+A +AT	ring forging bar ring		d		d			AD2000-W2		
28	2.	4068	VdTÜV sheet. 345	+A	forging bar ring		d		d			AD2000-W2		
<u>Rema</u>	<u>rks</u> +AT +P +M +N	= solution anne = precipitation I = thermo mech = normalized or	nardened		+NT = normaliz +QT = quenche +WW = hot solic +SR = stress re +A = anneale	ed and lified elieved	temp					d =		n pressure equipment 68/EU neccessary echnical rules



ac	Scope cording to		Directive 2014/68/E Annex I §4.3	EU		EN 76	64-4	1		\boxtimes		AD 2000- erkblatt W0		Regulation (EU) /2011(System 2+)
		Manufact	urer		V	Vork				Na	tionality	Date	Page No	
Nam	Oberleppe	26	& Co KG, Leppe-Ed	elstahl	(dto.				g	erman	25.06.2021	8	TÜV Rheinland Industrie Service
Locat	tion: 51	789 Lindlar										Rev. 1	von : 11	GmbH
Cur		rials-term rials-No.	Material Specification	Delivery Cond.	Article Type of Product	Thick ness mm	(- 6	ensions پ m		ma 1	eight x =t / =kg	Technical Specifications Requirements Technical Regulations	Be	
							Jp to	from	Up to		We rt	0	usirial Serie	NOUL
1		2	3	4	5	6a 6	3b	7a	7b	8a	-	9		10
29	1.	0460	VdTÜV- sheet. 364	+NT	forging bar, flange ring		d		d			AD2000-W9 AD2000-W13		
29	1.	0460		+NT			d		d					
30		6368	VdTÜV- sheet. 377/3 	+QT	forging bar, flange ring		d		d			AD2000-W9 AD2000-W13		
31 32		4313 4439	VdTÜV- sheet. 395/3 VdTÜV sheet.	+QT +AT	forging bar ring forging		d d		d d			AD2000-W13 AD2000-W2		
			405		bar ring				ŭ					
<u>Rema</u>	<u>rks</u> +AT +P +M +N	= solution anne = precipitation = thermo mech = normalized c	hardened		+NT = normaliz +QT = quenche +WW = hot solic +SR = stress re +A = anneale	ed and te lified elieved						d =		n pressure equipment 68/EU neccessary echnical rules



ac	Scope ccording to	D D	rective 2014/68/E Annex I §4.3	U		EN	764-4	4		\square		AD 2000- /lerkblatt W0		Regulation (EU) 5/2011(System 2+)
		Manufactu	rer		V	Vork				Ν	lationali	ty Date	Page No	
	Oberleppe	26	Co KG, Leppe-Ed	elstahl	(dto.					german		9	TÜV Rheinland Industrie Service
Loca	tion: 51	789 Lindlar	Ι			1						Rev. 1	von : 11	GmbH
Cur		erials-term erials-No.	Material Specification	Delivery Cond.	Article Type of Product	Thi ne m	ck- ss m		s Ø m Up to	m	Veight hax 1=t / 2=kg ↓ We	Technical Specifications Requirements Technical Regulations	Bi All Anein/opposed Tales/r/al Sevin	
1		2	3	4	5	6a	to 6b	7a	7b		rt a 8b	9	(a) o	10
mater	'ial appraisal. W	ith that the manufac	turing reliability for eq st be observed for the	uivalent ma	terial grades accordin	g to of	ther st	andard						oval or to the particular and limits of the
33		.4876	VdTÜV- sheet. 412	+AT	forging bar, flange		d 2 10 4		d			AD2000-W2 AD2-W9		
34	1	.4539	VdTÜV- sheet. 421	+AT	ring forging bar, flange ring		d		d			AD2000-W2 AD2000-W9		
35	2	2.4610	VdTÜV- sheet. 424	+AT	forging bar, ring		d		d			AD2000-W2		
Rema	<u>urks</u> +A ⁻ +P +M +N	 solution annea precipitation h thermo mecha normalized or 		+NT = normaliz +QT = quenche +WW = hot solid +SR = stress re +A = anneale	ed and lified elieved	l temp					d =		in pressure equipment /68/EU neccessary technical rules	



ac	Scope ccording to	⊠ D	irective 2014/68/E Annex I §4.3	EU		EN 764	4		AD 2000- erkblatt W0		Regulation (EU) /2011(System 2+)
		Manufactu	rer		V	Vork		Nationality	Date	Page No	
Nam	e: Chr. Höver	& Sohn GmbH &	Co KG, Leppe-Ed	elstahl	(dto.		german	25.06.2021	10	TÜV Rheinland
	Oberleppe 2										Industrie Service
Loca	tion: 517	789 Lindlar				1			Rev. 1	von : 11	GmbH
Cur		ials-term rials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dim Thick- ness	ensions	Weight max	Technical Specifications Requirements	Be	emerkungen
						mm	mm	1=t / 2=kg	Technical Regulations	3654	
						from Up to	from Up to		riogulationic	Strial Serie	NOUL
1		2	3	4	5	6a 6b	7a 7b	8a 8b	9		10
36	2.	4858	VdTÜV- sheet. 432/3	+A	forging bar ring	d	d		AD2000-W2		
37	1.4	1876H	VdTÜV- sheet.	+AT		d	d		AD2000-W2		
38	1.	4980	434 VdTÜV- sheet. 435	+AT	bar ring forging bar ring	d	d		AD2000-W2		
39	1.	4533 4553 4579	VdTÜV sheet. 451	+AT	forging bar, flange ring	d	d		AD2000-W2 AD2000-W9		
<u>Rema</u>	<u>ırks</u> +AT +P +M +N	= solution anne = precipitation h = thermo mecha = normalized or	ardened		+NT = normaliz +QT = quenche +WW = hot solid +SR = stress re +A = anneale	ed and tem lified elieved			d =		n pressure equipment 68/EU neccessary technical rules



ac	Scope ccording to	Dir Dir	ective 2014/68/E Annex I §4.3	U		EN	764-	4			N	AD 2000- lerkblatt W0		Regulation (EU) 5/2011(System 2+)
		Manufacture	er		V	Vork				Nat	ionalit	y Date	Page No	
Nam			Co KG, Leppe-Ede	elstahl	(dto.				ge	erman	25.06.2021	11	TÜV Rheinland Industrie Service
Locat												Rev. 1	von : 11	GmbH
Cur	Oberleppe 26 ion: 51789 Lindlar Materials-term Materials-No. 2 aterials according to the se of the materials according to ial appraisal. With that the manu		Material Specification	Delivery Cond.	Article Type of Product	-		ensions & m from	ð	max 1= 2=	=t / =kg We rt	Technical Specifications Requirements Technical Regulations	Bind Rheinight String	
1		2	3	4	5	6a	6b	7a	7b	8a	8b	9		10
mater	ial appraisal. Wi	th that the manufactu	ring reliability for equ	uivalent ma	blication of Harmonize terial grades accordin trial grades listed in co	g to o	ther st	andard	rds or s (e.g.	to the BS, A	qualifi FNOR,	cation by a Europ ASME) is proved.	ean material appr The requirements	oval or to the particular and limits of the
40	1	.1338	VdTÜV- sheet. 453	+NT	forging bar, flange Ring		d		d			AD2000-W9 AD2000-W13		
41	2	.4605	VdTÜV- sheet. 505	+AT	forging bar ring		d		d			AD2000-W2		
<u>Rema</u>	505				+NT = normaliz +QT = quenche +WW = hot solic +SR = stress re +A = anneale	ed and lified elieved	d temp			1	<u> </u>	d =		in pressure equipment /68/EU neccessary technical rules