Certifica	ate
	Quality management system for Manufacturer of Materials acc. to Directive 2014/68/EU
Certificate no.:	01 202 I/Q-13 6602.01
Name and address of the certificate holder:	Forgiatura A. Vienna S.r.I. Via Ospiate 46/48 20017 Rho MI Italy
	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 as listed in the scope of approval.
Test basis:	QM System acc. to EN 764-5, Clause 4.2 and AD 2000-Merkblatt W0
Audit report no.:	01 202 I/Q-13 6602
Scope:	Production of open die forgings, hot rolled rings and shell rings, pre machined and finish machined items for various applicationProduction of ingot with Electroslag Remelting Process (ESR), see annex to certificate: 01 202 I/Q-13 6602, revision 05 from 18.12.2024
Manufacturing plant:	see annex 2
Validity:	This certificate is valid to 2028-02-08.
	Z K. H. +
Cologne, 2025-01-11	Ines Krüger-Führ
TÜV Rheinland Industrie Service GmbH Notified Body for Pressure Equipment, ID-No Am Grauen Stein, D-51105 Cologne	b. 0035 E-108a



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Annex 2	2	
Certificate no.:	Quality management system for Manufacturer of Materials acc. to Directive 2014/68/EU	
Certificate 10.		
Name and address of the certificate holder:	Forgiatura A. Vienna S.r.I. Via Ospiate 46/48 20017 Rho MI Italy	
Manufacturing plants:	Forgiatura A. Vienna S.r.I. Via Ospiate 46/48 20017 Rho MI Italy Forgiatura A. Vienna S.r.I. Via Alfeo snc 26040 Cella Dati CR Italy	
Cologne, 2025-01-11	Z K. Votified Boo	
TÜV Rheinland Industrie Service GmbH Notified Body for Pressure Equipment, ID-Ni Am Grauen Stein, D-51105 Cologne		E-999



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Scope:	\boxtimes	Directive 20	014/68/EU Anne	ex I point	4.3		E	N 76	64-4			AD 200	0-Merkblatt V	V 0
	Certificate ho	older (Manufact	urer of materials)		Manuf	acturin	g plant			Na	tionality	Page No.:	1	
Company	Name: Fo	orgiatura A.Vien	na S.r.I.		Forgiatur	a A.Vie	enna S.	r.l.			IT	of :	16	TÜV Rheinland
Location:	Via	a Ospiate, 46/4	8		Via Ospiate, 46/48	3	via Alf	eo sn	с			Date:	18.12.2024	Industrie Service
	I-2	0017 Rho (Mila	an) - Italy		I-20017 Rho - MI	I-26	040 Cel	lla Da	ti-CR			Rev.:	05	GmbH
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2	P250GH (1.0	0460)	EN 10222-2	+N								EN 10222-1		
		tively the PED n			material grades listed						y. D0, A	EN 10222-1		uirements and limits of relevant standards
2	P250GH (1.	0460)	EN 10222-2	+N								EN 10222-1		
3	P265GH (1.0	0425)	EN 10222-2	+N	* Discs, flanges,) tons	EN 10222-1		
4	P280GH (1.	0426)	EN 10222-2	+N	shafts, plates, rods and mechanical						to 200	EN 10222-1		
5	P295GH (1.	0481)	EN 10222-2	+N	pieces for several uses.						d	EN 10222-1		
6	P305GH (1.	0436)	EN 10222-2	+N	** Production	d	d	d	d	1	ring rolling	EN 10222-1		
7	P285NH (1.0	0477)	EN 10222-4	+N	Process: Hot-Forging						ring	EN 10222-1		
8	P355NH (1.0	0565)	EN 10222-4	+N	Hot Pressing and Ring-Rolling						ing &	EN 10222-1		
9	P420NH (1.8	8932)	EN 10222-4	+N							Forging	EN 10222-1		
10	P285QH (1.)	0478)	EN 10222-4	+QT								EN 10222-1		
11	P355QH (1.0	0571)	EN 10222-4	+QT								EN 10222-1		
Remarks	+AT =	solution anne							bered					

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	Certificate holder (Manufa	cturer of materials)		Manufa	acturing	g plant			N	ationa	lity Page No.:	2	
Comp	any Name: Forgiatura A.Vie	enna S.r.I.		Forgiatura	a A.Vie	enna S.	r.I.			IT	of :	16	TÜV Rheinland
Locati	on: Via Ospiate, 46/	48		Via Ospiate, 46/48		via Alf	eo sn	с			Date:	18.12.2024	Industrie Service
	I-20017 Rho (M	ilan) - Italy		I-20017 Rho - MI	1-260	040 Cel	la Da	ti-CR			Rev.:	05	GmbH
	Materials-term	Material	Delivery	Article		Dimen	sions		We	ight	Technical		Remarks
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12	P420QH (1.8936)	EN 10222-4	+QT								EN 10222-1		
12	P420QH (1.8936)	EN 10222-4	+QT								EN 10222-1		
				- 1									
13	11CrMo9-10 (1.7383)	EN 10222-2	+NT +QT							tons	EN 10222-1		
13 14	11CrMo9-10 (1.7383) 12Ni14 (1.5637)	EN 10222-2 EN 10222- 3		* Discs, flanges, shafts, plates, rods and mechanical						to 200 tons	EN 10222-1 EN 10222-1		
	· · · ·		+QT +N +NT	shafts, plates, rods	d	d	d	d	1	ling up to 200 tons	-		
14	12Ni14 (1.5637)	EN 10222- 3	+QT +N +NT +QT +NT	shafts, plates, rods and mechanical pieces for several uses. ** Production Process:	d	d	d	d	1	ring rolling up to	EN 10222-1		
14 15	12Ni14 (1.5637) 13CrMo4.5 (1.7335)	EN 10222- 3 EN 10222-2	+QT +N +NT +QT +NT +QT	shafts, plates, rods and mechanical pieces for several uses. ** Production	d	d	d	d	1	& ring rolling up to	EN 10222-1 EN 10222-1		
14 15 16	12Ni14 (1.5637) 13CrMo4.5 (1.7335) 16Mo3 (1.5415)	EN 10222- 3 EN 10222-2 EN 10222-2	+QT +N +NT +QT +NT +QT +N +QT	shafts, plates, rods and mechanical pieces for several uses. ** Production Process: Hot-Forging Hot Pressing and	d	d	d	d	1	ring rolling up to	EN 10222-1 EN 10222-1 EN 10222-1		
14 15 16 17	12Ni14 (1.5637) 13CrMo4.5 (1.7335) 16Mo3 (1.5415) X10CrMoVNb9-1 (1.4903)	EN 10222- 3 EN 10222-2 EN 10222-2 EN 10222-2 EN 10222-2 EN 10222-2	+QT +N +NT +QT +NT +QT +N +QT +N +QT +NT	shafts, plates, rods and mechanical pieces for several uses. ** Production Process: Hot-Forging Hot Pressing and	d	d	d	d	1	& ring rolling up to	EN 10222-1 EN 10222-1 EN 10222-1 EN 10222-1		
14 15 16 17 18	12Ni14 (1.5637) 13CrMo4.5 (1.7335) 16Mo3 (1.5415) X10CrMoVNb9-1 (1.4903) X1CrNiMoCuN20-18-7 (1.4547) X2CrNi18-9 (1.4307) Ks +AT = solution anr +AR = as rolled +M = thermo med	EN 10222- 3 EN 10222-2 EN 10222-2 EN 10222-2 EN 10222-2 EN 10222-5 EN 10222-5 EN 10222-5 EN 10272 neeled	+QT +N +NT +QT +NT +QT +N +QT +N +QT +NT +AT +AT	shafts, plates, rods and mechanical pieces for several uses. ** Production Process: Hot-Forging Hot Pressing and Ring-Rolling, rings +NT = n +QT = q	ormaliz uenche oft ann	zed and ealed	l temp	pered	1	& ring rolling up to	EN 10222-1 EN 10222-1 EN 10222-1 EN 10222-1 EN 10222-1 EN 10222-1 a = PMA in Dir	ective 2014/68/I	essure equipment EU neccessary



Via Ospiate, 46/48 L-20017 Rho (Milan) - Italy Via Ospiate, 46/48 L-20017 Rho / Materials-term Via Ospiate, 46/48 L-20017 Rho / Mila via Alfeo snc L-26040 Cella Dati-CR Date: Ist.22024 Rev.: Industrie Service GmbH Cur Materials-term Materials Delivery Specification Delivery Specification Article Type of Product Dimensions Weight mm Technical Specifications Requirements Technical Requirements 1 2 3 4 5 6a b 9 10 1 2 3 4 5 6a b 9 10 1 2 3 4 5 6a b 9 10 1 2 3 4 5 6a b 9 10 1 2 3 4 5 6a b 9 10 1 4 5 6a b 7 b 8a 9 10 1 4 5 6a b 7 b 8a 9 10 1 4 5 6a b 7 b 8a 9 10 1 4 5 5 6a b 7 b <t< th=""><th>Scop</th><th>e: ۲</th><th>Directive 2</th><th>2014/68/EU Anne:</th><th>∍x I point</th><th>4.3</th><th>ļ</th><th></th><th>EN 76</th><th>4-4ز</th><th></th><th></th><th>🖂 AD 200</th><th>00-Merkblatt V</th><th>N O</th></t<>	Scop	e: ۲	Directive 2	2014/68/EU Anne:	∍x I point	4.3	ļ		EN 76	4-4ز			🖂 AD 200	00-Merkblatt V	N O
Location: Via Ospiate, 46/48 L-20017 Rho (Milan) - Italy Viaospiate, 46/48 L-20017 Rho (Milan) - Italy Viaospi		Certificate	holder (Manufac'	turer of materials)		Manuf	acturing	g plant			Ni	atione	ality Page No.:	3	
L-20017 Rho (Milan) - Italy L-20017 Rho - MI L-2040 Cella Dati-CR Rev.: 05 GmbH Cur Materials-term Materials-No. Specification Delivery Specification Article Type of Product Dimensions Weight mm Technical max Requirements Specification Remarks 1 2 3 4 5 6a b 1 Requirements Technical and the materials according to harmonized European standards (FNA) and European Approval for Materials (EAM) acc. Directive 2014/68/EU 10	Comŗ	any Name:	Forgiatura A.Vier	ina S.r.I.		Forgiatur	a A.Vie	nna S.	.r.l.			IT	of :	16	TÜV Rheinland
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1 2 3 4 5 6a 6b 7a 7b 8a 8b 9 10 1. Materials according to harmonized European standards (hEN) and European Approval for Materials (EAM) acc. Directive 2014/68/EU 10 10 The use of the materials according to Directive 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval for Materials (EAM) acc. Directive 2014/68/EU The use of the material appreciable code respectively the PED must be observed for the use of material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades isted in column 2 to 4. EN 10222-5 +AT +AT -Disos, flanges, shafts, plates, rods and the mechanical precision for the use of material apprecision for the use for several uses. d d d d d d d d EN 10222-1 EN 10222-1 EN 10222-1 EN 10222-5 +AT Production Process: d <t< td=""><td></td><td></td><td>ļ</td><td>1</td><td></td><td></td><td>from I</td><td></td><td></td><td></td><td> ↓ ′</td><td></td><td>1</td><td></td><td>, I</td></t<>			ļ	1			from I				↓ ′		1		, I
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22 X2CrNiMo 17-12-3 (1.4432) EN 10272 +AT and mechanical pieces for several uses. 23 X2CrNiMo18-14-3 (1.4435) EN 10222-5 +AT ** Production Process: 24 X2CrNiMoN22-57-4 (1.4501) EN 10222-5 +AT 25 X2CrNiMoN 22-5-3 (1.4462) EN 10222-5 +AT 26 X3CrNiMo17-13-3 (1.4436) EN 10222-5 +AT +AT = solution annealed +AT = normalized and tempered +AR = as rolled +QT = normalized and tempered a +AR = thermo mechanical treated +S = soft annealed d a			· · ·	EN 10272 EN 10222-5		-						န ျ			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	20	X2CrNi19-1	1 (1.4306)		+AT								EN 10222-1		
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23 X2CrNiMo18-14-3 (1.4435) EN 10222-5 EN 10272 +AT uses. +AT uses. ** Production Process: Hot-Forging Hot Pressing and Ring-Rolling d	22	X2CrNiMo 17-1	12-3 (1.4432)		+AT	and mechanical				1		up to			
24 X2CrNiMoCuVVN25-7-4 (1.4501) EN 10272 +AT Hot Pressing and Ring-Rolling EN 10222-1 25 X2CrNiMoN 22-5-3 (1.4462) EN 10222-5 EN 10272 +AT AT Ring-Rolling EN 10222-1 EN 10222-1 26 X3CrNiMo17-13-3 (1.4436) EN 10222-5 EN 10272 +AT +AT = normalized and tempered +AR = as rolled +M = thermo mechanical treated +NT = normalized and tempered +QT = quenched and tempered +S = soft annealed a = PMA for the use in pressure equipment in Directive 2014/68/EU neccessary d = dimension acc. to the technical standary	23	X2CrNiMo18-1	4-3 (1.4435)		+AT	** Production	d	d	d	d	1	rolling	EN 10222-1		
26 X3CrNiMo17-13-3 (1.4436) EN 10222-5 EN 10272 +AT +NT = normalized and tempered +AR = as rolled +AR = as rolled +M +NT = normalized and tempered +QT a = PMA for the use in pressure equipment in Directive 2014/68/EU neccessary d = dimension acc. to the technical standary	24	X2CrNiMoCuWN:	25-7-4 (1.4501)		+AT	Hot-Forging Hot Pressing and				1		oŏ	EN 10222-1		
26 X3CFNIM017-13-3 (1.4436) EN 10272 +A1 EN 10272 +A1 Remarks +AT = solution annealed +NT = normalized and tempered a = PMA for the use in pressure equipment +AR = as rolled +QT = quenched and tempered a = DMA for the use in pressure equipment +M = thermo mechanical treated +S = soft annealed d = dimension acc. to the technical standary	25	X2CrNiMoN 22	5-3 (1.4462)		+AT	Ring-Rolling						Forgir	EN 10222-1		
+AR = as rolled +QT = quenched and tempered in Directive 2014/68/EU neccessary +M = thermo mechanical treated +S = soft annealed d = dimension acc. to the technical standary	26	X3CrNiMo17-1	3-3 (1.4436)		+AT					1			EN 10222-1		
	Rema	20 X3CrNIM017-13-3 (1.4436) EN 10272 Remarks +AT = solution annealed +AR = as rolled +M = thermo mechanical treated				+QT = qu	luenche	ed and t nealed	tempe				in Dir	irective 2014/68/E	/EU neccessary



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	Certifica	ate holder (Manufac	cturer of materials)		Manufa	acturing	g plant			N	ation	ality	Page No.:	4	
Comp	any Name:	Forgiatura A.Vie	nna S.r.l.		Forgiatura	a A.Vie	nna S.i	·.I.			IT		of :	16	TÜV Rheinland
Locat	ion:	Via Ospiate, 46/	48		Via Ospiate, 46/48		via Alfe	eo sno	>				Date:	18.12.2024	Industrie Service
		I-20017 Rho (Mi	lan) - Italy		I-20017 Rho - MI	1-260	040 Cel	a Da	i-CR				Rev.:	05	GmbH
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27	X5CrNi1	8-10 (1.4301)	EN 10222-5 EN 10272	+AT							6		EN 10222-1		
	-		EN 10222-5 EN 10272		material grades listed	in colu	imn 2 to						EN 10222-1		
											l ü				
28	X5CrNiMo1	7.12.2 (1.4401)	EN 10222-5 EN 10272	+AT	* Discs, flanges, shafts, plates, rods and mechanical pieces for several						up to 200 tons		EN 10222-1		
28 29		7.12.2 (1.4401) 8-10 (1.4948)		+AT +AT	shafts, plates, rods and mechanical pieces for several uses. ** Production	d	d	d	d	1	rolling up to		EN 10222-1 EN 10222-1		
	X6CrNi1		EN 10272		shafts, plates, rods and mechanical pieces for several uses.	d	d	d	d	1	& ring rolling up to				
29	X6CrNi1 X6CrNiNb	8-10 (1.4948)	EN 10272 EN 10222-5 EN 10222-5	+AT	shafts, plates, rods and mechanical pieces for several uses. ** Production Process: Hot-Forging Hot Pressing and	d	d	d	d	1	ring rolling up to		EN 10222-1		



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Certific	cate holder (Manufa	acturer of materials)		Manufa	acturing	g plant	I		Na	ationa	lity Page No.:	5	
Company Name:	Forgiatura A.V	enna S.r.I.		Forgiatura	a A.Vie	enna S	.r.l.			IT	of :	16	TÜV Rheinland
_ocation:	Via Ospiate, 46	6/48		Via Ospiate, 46/48		via Alt	feo sr	IC			Date:	18.12.2024	Industrie Service
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Z F230	GH (1.0400)	EN 10222-2		* Discs, flanges,						0 tons	W9 - W12 - W13		
3 P265	GH (1.0425)	EN 10222-2	+N	shafts, plates, rods and mechanical pieces for several						up to 200	AD2000 W9 – W13		tificate 3.1 acc. EN 10204 is required
4 P280	GH (1.0426)	EN 10222-2	+N +NT +QT	uses.	d	d	d	d	1	rolling u	AD2000 W9 – W13		
5 P295	GH (1.0481)	EN 10222-2	+N	** Production Process: Hot-Forging						& ring r	AD2000 W9 – W13		
6 P305	GH (1.0436)	EN 10222-2	+N +NT +QT	Hot Pressing and Ring-Rolling						Forging {	AD2000 W9 – W13	Inspection Cert is required	ificate 3.2 acc. EN 10204
7 P355	NH (1.0565)	EN 10222-4 VdTuv 354-3	+N							ш	AD2000 W9 – W12 – W13 – W10	VdTUV materia	acturer is listed in the Il data sheet. Inspection acc. EN 10204 is
Remarks +A +A	R = as rolled	nealed		+QT = qı		ed and ed and ealed				•	in Di	for the use in pr ective 2014/68/ nsion acc. to the	



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	Certifica	ate holder (Manuf?	acturer of materials)		Manuf	acturing	g plant	t		N	ationa	ality	Page No.:	6	1
Company	Name:	Forgiatura A.Vie	enna S.r.I.		Forgiatura	a A.Vi¢	nna S	. r.l .			IT		of :	16	TÜV Rheinland
ocation:		Via Ospiate, 46	3/48		Via Ospiate, 46/48		via Al′	lfeo sno	IC			,	Date:	18.12.2024	Industrie Service
		I-20017 Rho (M	<i>l</i> ilan) - Italy		I-20017 Rho - MI	I-260	040 Cel	illa Da	ıti-CR			ļ	Rev.:	05	GmbH
Cur		rials-term	Material	Delivery		, <u> </u>	Dimen	nsions			eight		Technical	1	Remarks
-	Mate	erials-No.	Specification	Cond.	Type of Product	Thial		I	~	m	nax		pecifications	4	
							k-ness nm		Ø mm	1:	=t /		equirements Technical		
											= <u>kg</u>		Regulations		
						from	Up	fro	Up	↓	res				
1		2	3	4	5	6a	to 6b	m 7a	to 7b	8a	ult 8b	┼──	9	+	10
> Mater	rials acc	-	AD 2000-Code					<u> </u>	~	100	0~	<u> </u>		<u> </u>	
8	P420N	NH (1.8932)	EN 10222-4 VdTuv 356-3	+N		i I		!				W12	2 – W13 – W10	VdTUV material Certificate 3.2 ad	l data sheet. Inspection acc. EN 10204 is required.
applicable	code respe	ectively the PED mu	ecturing reliability for ec ust be observed for the EN 10222-4	e use of mat	terial grades listed in c	<u>ig to 5.</u> <u>:olumn</u>	2 to 4.		ls (e.y.	во, д —				Material Manufa	acturer is listed in the
<u> </u>					-	i I	1	'				AD20			acc. EN 10204 is required. acturer is listed in the
9	P460N	NH (1.8935)	VdTuv 357-3	+N		i I		!			tons	W9 – W10	– W12 – W13 –	VdTUV material Certificate 3.2 ad	l data sheet. Inspection acc. EN 10204 is required.
10	P420C	QH (1.8936)	EN 10222-4 VdTuv 356-3	+QT	* Discs, flanges, shafts, plates, rods and mechanical	l I		!			to 200	AD20 W12	000 2 – W13 – W10	VdTUV material	acturer is listed in the I data sheet. Inspection acc. EN 10204 is required.
11	S235 、	JR (1.0038)	EN 10250-2	+N	pieces for several uses.	d	d	d	d	1	ring rolling up to 200 tons	AD20 W9 –	000 - W13		
12	S215	G (1.0116)	EN 10250-2	+N	** Production Process:	a	u		u u		ng roll	AD20 W9	000 - W13		
				+	Hot-Forging Hot Pressing and	i 1	1	'			~~			+	
13	S3250	G (1.0570)	EN 10250-2	+N	Ring-Rolling	, i	1	'			Forging	W9 -	– W13		1
14	P355 I	NL (1.0566)	EN 10222-4	+N		1					For		000 – W13 – W10		
15	11CrMo ⁽	9-10 (1.7383)	EN 10222-2	+NT +QT		1		!				AD20 W12	000 2 – W13	Certificate 3.2 a required.	acc. EN 10204 is
Remarks	+AT +AR +M	R = as rolled	nnealed echanical treated		+QT = qu		zed and ed and realed	I tempe		<u> </u>			in Dire	rective 2014/68/I	ressure equipment EU neccessary e technical standar



Scope:	Directive ?	2014/68/EU Anne	x I point	4.3		I □ E	EN 76	,4-4			🖂 ΑΓ) 2000	0-Merkblatt V	<i>N</i> 0
Cert	tificate holder (Manufac	cturer of materials)		Manuf	acturing	g plant	t.		N/	lationa	ality Page N	l o.:	7	
Company Name:	Forgiatura A.Vie	nna S.r.I.		Forgiatura	a A.Vie	nna S	.r.l.			IT	of :		16	TÜV Rheinland
Location:	Via Ospiate, 46/4	/48		Via Ospiate, 46/48		via Alf	lfeo sno	iC			Date:	Ţ	18.12.2024	Industrie Service
	I-20017 Rho (Mil	ilan) - Italy		I-20017 Rho - MI	1-260	040 Cel	illa Da	ti-CR			Rev.:		05	GmbH
	laterials-term /aterials-No.	Material Specification	Delivery Cond.	Article Type of Product	Thick-		 	s Ø mm	ma	eight nax =t /	Technica Specificatio Requireme Technica	ions ents		Remarks
					from	Up	from	Up to	2=	=kg res ult	Regulatio			
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9			10
16 12Cr	rMo9-10 (1.7375)	VdTuv 404-3	+NT +QT								AD2000 W12-W10-W13	-		al data sheet. Inspection acc. EN 10204 is
material appraisal.	terials according to DG I. With that the manufact espectively the PED mus	cturing reliability for eq	quivalent ma	aterial grades accordin	ing to ot	ther sta	tandard						e requirements	roval or to the particular and limits of the facturer is listed in the
17 12	2Ni14 (1.5637)	EN 10222-3	+N +NT +QT	* Discs, flanges, shafts, plates, rods						200 tons	AD2000 W9 - W12 - W13	W10 -	'	acc. EN 10204 is required
18 13C	CrMo4.5 (1.7335)	EN 10222-2	+NT +QT	and mechanical pieces for several uses.							AD2000 W9 –W12 – W	/13	Certificate 3.2 a	acc. EN 10204 is required
19 16	6Mo3 (1.5415)	EN 10222-2	+N +QT	** Production Process:	d	d	d	d	1	& ring rollin	AD2000 W9 –W13			
20 0	C21 (1.0432)	VdTuv 399-3	+N	Hot-Forging Hot Pressing and Ring-Rolling	ļ 1					p	AD2000 W13-W9		VdTUV material Certificate 3.2 a required.	facturer is listed in the al data sheet. Inspection acc. EN 10204 is
		EN 10222-2	+N		, İ	1		1	!		AD2000 W13-W9			facturer is listed in the al data sheet. Inspection
21 P250G	GH / C22.8 (1.0460)	VdTuv 350-3			, 	I _		۱ 					required.	acc. LIN 10204 IS



Scop	be:	Directive 2	2014/68/EU Anne	ex I point	4.3		E	N 76	64-4			🖂 AD 200	0-Merkblatt \	V 0
	Certifica	te holder (Manufa	cturer of materials)		Manuf	acturin	g plant			N	ationa	ality Page No.:	8	
Comp	any Name:	Forgiatura A.Vie	nna S.r.I.		Forgiatur	a A.Vie	enna S.	r.I.			IT	of :	16	TÜV Rheinland
Locat	ion:	Via Ospiate, 46/	48		Via Ospiate, 46/48		via Alf	eo sn	с			Date:	18.12.2024	Industrie Service
		I-20017 Rho (Mi	lan) - Italy		I-20017 Rho - MI	1-260	040 Ce	lla Da	ti-CR			Rev.:	05	GmbH
Cur -		ials-term rials-No.	Material Specification	Delivery Cond.	Article Type of Product	Thick	Dimer -ness		Ø nm	m 1	eight nax =t /	Technical Specifications Requirements Technical		Remarks
						from	Up to	fro m	Up to	2: ↓↓	-kg res ult	Regulations		
1		2	3	4	5	6a	6b	7a	7b	8a	8b	9		10
22	X2CrNi18	8-9 (1.4307)	EN 10222-5 EN 10272	+AT							suo	W2 – W10	for thickness >	
			EN 10222-5 EN 10272		erial grades listed in o	column	2 10 4.				ß	AD2000 W2 – W10		acc. EN 10204 is requir 250mm
23	X2CrNi19	9-11 (1.4306)	EN 10222-5 EN 10272	+AT	* Discs, flanges, shafts, plates, rods and mechanical pieces for several						up to 200 tons	AD2000 W2 – W10	Certificate 3.2 a for thickness >	acc. EN 10204 is requir 250mm
24	X2CrNiMo17	7-12-2 (1.4404)	EN 10222-5 EN 10272	+AT	** Production	d	d	d	d	1	rolling	AD2000 W2 – W10	Certificate 3.2 a for thickness >	acc. EN 10204 is requir 250mm
25	X2CrNiMo 1	7-12-3 (1.4432)	EN 10222-5 EN 10272	+AT	Process: Hot-Forging Hot Pressing and Ring-Rolling						ging & ring	AD2000 W2 – W10	Certificate 3.2 a for thickness >	acc. EN 10204 is requir 250mm
			EN 10222-5	+AT							For	AD2000 W2 – W10	Certificate 3.2 a for thickness >	
			EN 10222-5	+ΔΤ	Ring-Rolling						Forging			





300	be:	Directive 2	014/68/EU Anne	ex I point	4.3		E	N 76	4-4			🖂 AD 200	0-Merkblatt V	V 0
	Certifica	ate holder (Manufact	turer of materials)		Manuf	acturin	g plant			Na	ationa	lity Page No.:	9	
Com	oany Name:	Forgiatura A.Vien	na S.r.I.		Forgiatur	a A.Vie	nna S.	.r.l.			IT	of :	16	TÜV Rheinland
Loca	ion:	Via Ospiate, 46/4	.8		Via Ospiate, 46/48		via Alf	feo sn	с			Date:	18.12.2024	Industrie Service
		I-20017 Rho (Mila	an) - Italy		I-20017 Rho - MI	1-260	040 Ce	lla Da	ti-CR			Rev.:	05	GmbH
Cur -		Iaterials-term Material Del Materials-No. Specification Co	Delivery Cond.	Article Type of Product	Thick m			Ø nm	m 1=	eight lax =t / =kg	Technical Specifications Requirements Technical Regulations		Remarks	
						from	Up	fro	Up] ↓	res			
1		2	3	4	5	6a	to 6b	m 7a	to 7b	8a	ult 8b	9		10
2. M	aterials acc	ordina to the A	D 2000-Code			-	-				-		•	
27	AZCININICUV	WN25-7-4 (1.4501)	EN 10272	+AT				1				W2 – W10	Certificate 5.2 a	acc. EN 10204 is requir
28	X2CrNiMoN	22-5-3 (1.4462)	EN 10222-5 EN 10272 VdTuv 418	+AT	* Discs, flanges, shafts, plates, rods						o 200 tons	AD2000 W2 – W10	VdTUV materia Certificate 3.2 a	acturer is listed in the I data sheet. Inspection Icc. EN 10204 is
28 29		7-13-3 (1.4462)	EN 10222-5 EN 10272	+AT +AT	* Discs, flanges, shafts, plates, rods and mechanical pieces for several uses.	d	d	d	d	1		AD2000	VdTUV materia Certificate 3.2 a required.	l data sheet. Inspection acc. EN 10204 is acc. EN 10204 is require
-	X3CrNiMo1	· · · ·	EN 10222-5 EN 10272 VdTuv 418 EN 10222-5		shafts, plates, rods and mechanical pieces for several uses. ** Production Process: Hot-Forging	d	d	d	d	1	ring rolling up to	AD2000 W2 – W10 AD2000	VdTUV materia Certificate 3.2 a required. Certificate 3.2 a for thickness >	I data sheet. Inspection acc. EN 10204 is acc. EN 10204 is require 160 mm acc. EN 10204 is require
29	X3CrNiMo1 X5CrNi18	7-13-3 (1.4436)	EN 10222-5 EN 10272 VdTuv 418 EN 10222-5 EN 10272 EN 10222-5	+AT	shafts, plates, rods and mechanical pieces for several uses. ** Production Process:	d	d	d	d	1	& ring rolling up to	AD2000 W2 – W10 AD2000 W2 – W10 AD2000	VdTUV materia Certificate 3.2 a required. Certificate 3.2 a for thickness > Certificate 3.2 a for thickness >	I data sheet. Inspection acc. EN 10204 is acc. EN 10204 is require 160 mm acc. EN 10204 is require 250mm acc. EN 10204 is require
29 30	X3CrNiMo1 X5CrNi18 X5CrNiMo1	17-13-3 (1.4436) 8-10 (1.4301)	EN 10222-5 EN 10272 VdTuv 418 EN 10222-5 EN 10272 EN 10222-5 EN 10272 EN 10222-5	+AT +AT	shafts, plates, rods and mechanical pieces for several uses. ** Production Process: Hot-Forging Hot Pressing and	d	d	d	d	1	ring rolling up to	AD2000 W2 – W10 AD2000 W2 – W10 AD2000 W2 – W10 AD2000	VdTUV materia Certificate 3.2 a required. Certificate 3.2 a for thickness > Certificate 3.2 a for thickness > Certificate 3.2 a for thickness >	I data sheet. Inspectior acc. EN 10204 is acc. EN 10204 is requir 160 mm acc. EN 10204 is requir 250mm acc. EN 10204 is requir 250mm acc. EN 10204 is requir





Sco	pe:	Directive 2	014/68/EU Anne	x I point	4.3		E	N 76	4-4			🛛 AD 200	0-Merkblatt \	V 0
	Certifica	te holder (Manufac	turer of materials)		Manufa	acturin	g plant			N	ationa	ality Page No.:	10	
Com	pany Name:	Forgiatura A.Vier	na S.r.I.		Forgiatura	a A.Vie	enna S.	r.I.			IT	of :	16	TÜV Rheinland
Loca	tion:	Via Ospiate, 46/4	.8		Via Ospiate, 46/48		via Alf	eo sn	с			Date:	18.12.2024	Industrie Service
Ĩ		I-20017 Rho (Mila	an) - Italy		I-20017 Rho - MI	1-260	040 Ce	lla Dat	ti-CR			Rev.:	05	GmbH
Cur -		ials-term rials-No.	Material Specification	Delivery Cond.	Article Type of Product	Thick	Dimen -ness m Up		Ø nm Up	m 1:	eight hax =t / =kg res	Technical Specifications Requirements Technical Regulations		Remarks
						nom	to	m	to	Ň	ult			
1		2 ording to the A	3	4	5	6a	6b	7a	7b	8a	8b	9		10
mate	rial appraisal. Wi	th that the manufact	uring reliability for ec	uivalent ma	blication of Harmoniz aterial grades accordin erial grades listed in c	ng to o	ther sta							oval or to the particular and limits of the
34		17-12-2 (1.4571)	EN 10222-5 EN 10272	+AT	* Discs, flanges, shafts, plates, rods and mechanical pieces for several						lling up	AD2000 W2 – W10	Certificate 3.2 a for thickness >	acc. EN 10204 is required 250mm
35	X6CrNiNb	18-10 (1.4550)	EN 10222-5 EN 10272	+AT	uses. ** Production	d	d	d	d	1	g & ring rolling to 200 tons	W2 – W10	Certificate 3.2 a for thickness >	acc. EN 10204 is required 250mm
36	X6CrNiTi1	8-10 (1.4541)	EN 10222-5 EN 10272	+AT	Process: Hot-Forging Hot Pressing and Ring-Rolling						Forging a	AD2000 W2 – W10	Certificate 3.2 a for thickness >	acc. EN 10204 is required 250mm
<u>Rema</u>	arks +AT +AR +M +N	= thermo mech	ealed nanical treated r normalizing forme	d	+QT = qı +S = so	uenche oft ann	zed and ed and ealed elieved	tempe				in Dir	ective 2014/68/I	essure equipment EU neccessary technical standard



	ope: Directive	2014/68/EU Anne	x I point	4.3]		176	4-4			🖂 AD 2000	AD 2000-Merkblatt W 0				
	Certificate holder (Manufa	acturer of materials)		Manufa	acturing	plant			Na	ational	ity Page No.:	11				
	apany Name: Forgiatura A.Vi ation: Via Ospiate, 46 I-20017 Rho (M	/48		Forgiatura A.Vie Via Ospiate, 46/48 I-20017 Rho - MI I-260		na S.r. via Alfe 0 Cella	o sno			IT	Date:	16 18.12.2024 05	TÜV Rheinland Industrie Service GmbH			
Cur -	Materials-term Materials-No.	Material Deliv Specification Con		Article Type of Product	Thick-r mm				m 1=	eight hax =t / =kg res	Technical Specifica Requirements Technical Regula	ations s	Remarks			
1	2	3	4	5	6a	to 6b	m 7a	to 7b	8a	ult 8b	9		10			
	Aterials according to inter	•						10	Uu		5		10			
	erial appraisal. With that the manufaction of the the respectively the PED module of the	ust be observed for the					-	-	1	Press forging unit weight up to 20 tons	*) = As defined in the spec ITER_D_2DX6KS v ITER_D_2EFZGP v1.3 al MR Edition 2007 Sect.R	cifications 1.4, and RCC-	a			
2	A105/A105M	ASTM A105	+N +NT +QT	* Disks, flanges, shafts, plates, rods	-	-	-	-	1	tons	ASTMA105		а			
3	A105/A105M F1, F2 , F5 , F9 F6 , Cl.1 / Cl.2 /Cl.3/NM F11, Cl.1 / Cl.2 /Cl.3 F12, Cl.1 / Cl.2 F21/ F22, Cl.1 / Cl.2 / Cl.3 F51 / F53 / F55 / F91 F304 / 304L / 304H F310 / 310H / 310MoLN F316 / F316L / 316LN / F316Ti / Urea grade F317L / 317LN F321 / 321H F347 / 347H		+NT	shafts, plates, rods and mechanical pieces for several uses. ** Production Process: Hot-Forging Hot Pressing and Ring-Rolling	- -	-	-	-	1	Forging & ring rolling up to 200 tons	ASTM A182		a a			



Scop	be: Directiv	e 2014/68/EU Ann	ex I point	4.3		E	N 76	64-4			🛛 AD 200	AD 2000-Merkblatt W 0			
	Certificate holder (Man	ufacturer of materials)		Manuf	acturin	g plant			N	lationalit	y Page No.:	12			
Comp	oany Name: Forgiatura A	Vienna S.r.l.		Forgiatur	a A.Vie	enna S.	r.I.			IT	of :	16	TÜV Rheinland		
Locati	ion: Via Ospiate,	Via Ospiate, 46/48			1	via Alfeo snc					Date:	18.12.2024	Industrie Service		
	I-20017 Rho	(Milan) - Italy		I-20017 Rho - MI	1-260	040 Ce	lla Da	ti-CR			Rev.:	05	GmbH		
Cur	Materials-term Materials-No.	Material Specification			Thick	Dimen -ness		Ø	r	eight nax	Technical Specif	nts	Remarks		
					m	m	mm		1=t / 2=kg		Technical Regulations				
					from	Up	fro	Up	↓	res					
1	2	3	4	5	6a	to 6b	m 7a	to 7b	8a	ult 8b	9		10		
. Ma	aterials according to in	ernational standa	rds (e. a	. ISO. ASTM. AS						1 - 1	-		-		
4	A350-LF2 / LF3 / LF6	ASTM A350/350M	+N +QT							io 50/20	ASTM A35	50	а		
applic 4	ial appraisal. With that the manu able code respectively the PED A350-LF2 / LF3 / LF6	Must be observed for the ASTM	e use of mat +N	erial grades listed in	column	2 to 4.		(e.g.		·					
5	Cl.1/2/4 , A266 Gr.2/4	ASTM	+N							g up t	ASTM A26	6	а		
Ŭ.	01.1/2/4,7/200 01.2/4	A266/266M +QT	+QT	* Disks, flanges, shafts, plates, rods						ons	//01/11//20		ų		
6	F1 / F5 /F5A / F11 / F22 / F91	ASTM A336/336M	STM +AT pieces for sever		d				1	Forging and ring rolling up to 50/200 Tons	ASTM A33	6	а		
	F304 / 304L / 304H			** Production	d	d	d	d		Forging	ASTM A69	95	а		
7	F310H / F316 / 316L F321/ 321H / F347 / 347H	ASTM A695/695M	+AT	Process: Hot-Forging											
7 8	F310H / F316 / 316L	A695/695M	+AT +QT							ring rolling 00 tons	ASTM A50	18	а		
	F310H / F316 / 316L F321/ 321H / F347 / 347H	A695/695M		Hot-Forging Hot Pressing and						Forging & ring rolling up to 200 tons	ASTM A50 ASTM A76		a		

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	Certific	ate holder (Manufac	turer of materials)		Manufa	acturin	g plant			Nationality		y Page No.:	13			
Comp	pany Name:	Forgiatura A.Vier	nna S.r.l.		Forgiatura	a A.Vie	enna S.	r.l.			IT	of :	16	TÜV Rheinland		
Locat	tion:	Via Ospiate, 46/4	8		Via Ospiate, 46/48		via Alf	eo sr	IC			Date:	18.12.2024	Industrie Service		
		I-20017 Rho (Milan) - Italy			I-20017 Rho - MI I-26040 Cella Dati-CR						Rev.:	05	GmbH			
Cur		rials-term erials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness Ø mm mm				m 1	eight nax =t / =kg	Technical Spec Requireme Technical Reg	ents	Remarks		
1		2	3	4	5	from 6a	Up to 6b	fro Up m to 7a 7b		↓ res ult 8a 8b		9		10		
3 M	latoriale acc	_	÷	+ <u>+</u>	ISO, ASTM, AS	-	-		70	oa	lon	9		10		
mater applic	rial appraisal. W cable code resp	ith that the manufact ectively the PED mus	auring reliability for economic technologies and the observed for the ASTM	uivalent m	aterial grades accordin erial grades listed in c	ng to o	ther sta					ASME) is proved.	The requirements			
10	F52 / Ft	60 / F65 / F70	A694/694M	+Q1								ASTM A6)94	а		
11	UNS NO	4400/NO8811 8800/NO8810 8825/NO10276	ASTM B564/564M	+AT	* Disks, flanges,						Forgin g and ring rolling	ASTM B5	564	а		
12	UNS	S N08904	ASTM A480/480M	+AT	shafts, plates, rods and mechanical pieces for several						up to 5 Tons	ASTM A4	180	а		
13	S355	JR (1.0570)	EN 10250-2	+N	uses. ** Production	d	d	d	d	1	up to	EN 10250	0-1	а		
14	WStE355 (F	2355NH) (1.0565)	DIN 17102 (EN 10222-4)	+N	Process: Hot-Forging Hot Pressing and Ring-Rolling						and ring rolling up 50/200 Tons	DIN 1710	02	а		
15	WStE4	460 (1.8935)	DIN 17102	+QT	Tring-rooming						jing and r 50/20	DIN 1710		а		
16	X6CrNiT	iMoVB25-15-2	(*)	+AT							Forging	*) = As defined specificatio ITER_D_AHJV	ons			
Rema		R = as rolled = thermo mecl		d	+QT = qı +S = so	uenche oft ann		temp				in Di	irective 2014/68/	ressure equipment EU neccessary e technical standard		
00315	559 E-100-E-Que	stionnaire MM-Form8-	Scope PED_AD 2000	Rev.02.Doc	MS-0031	559 E-1	00 form	ı 8 PE	D_AD 2	000-E	E rev.02			page 13/16		



Sco	be:	Directive 2	2014/68/EU Anne	ex I point	4.3		ΠE	N 76	4-4			🖂 AD 200	AD 2000-Merkblatt W 0			
	Certifica	ite holder (Manufac	cturer of materials)		Manuf	acturin	g plant			N	ational	ity Page No.:	14			
Comp	any Name:	Forgiatura A.Vie	nna S.r.I.		Forgiatur	a A.Vie	nna S.	r.l.			IT	of :	16	TÜV Rheinland		
Locat	ion:	Via Ospiate, 46/4	48		Via Ospiate, 46/48		via Alf	eo sn	0			Date:	18.12.2024	Industrie Service		
		I-20017 Rho (Mi	lan) - Italy		I-20017 Rho - MI	I-20017 Rho - MI I-2604						Rev.:	05	GmbH		
Cur	Materials-term Materials-No.		Material Delivery Specification Cond.		Article Type of Product	Dimen -ness		Ø		eight lax		Technical Specifications Requirements				
						m	m	mm		1=t /		Technical Regulations				
						from	Up fro L		Up	2=kg ↓ res		-				
						nom	to	m	to		ult					
1		2	3	4	5 . ISO, ASTM, AS	6a	6b	7a	7b	8a	8b	9		10		
17	20MnMoN	Ni4-5 (1.6311)	EN 10250-3	+QT								EN 10250-	1	а		
applic	able code respe	ctively the PED mus	st be observed for the	use of mate	aterial grades accordi erial grades listed in o			indard	s (e.g.	в5, A			-			
4.0																
	VAC NEM CON		EN 40050 4		* Disks flanges						Tons	EN 40050				
18	X1CrNiMoCuN	N20-18-7 (1.4547)	EN 10250-4	+AT	* Disks, flanges, shafts, plates, rods and mechanical						o 200 Tons	EN 10250-	1	а		
18 19		N20-18-7 (1.4547) 8-9 (1.4307)	EN 10250-4 EN 10250-4	+AT +AT		d	d	d	d	1	up to 200	EN 10250- EN 10250-		a		
	X2CrNi1				shafts, plates, rods and mechanical pieces for several uses. ** Production Process:	d	d	d	d	1	up to 200		1			
19	X2CrNi1 X2CrNi19	8-9 (1.4307)	EN 10250-4	+AT	shafts, plates, rods and mechanical pieces for several uses. ** Production	d	d	d	d	1	and ring rolling up to 200	EN 10250-	1	а		
19 20	X2CrNi1 X2CrNi19 X2CrNiMo1	8-9 (1.4307) 9-11 (1.4306)	EN 10250-4 EN 10250-4	+AT +AT +AT	shafts, plates, rods and mechanical pieces for several uses. ** Production Process: Hot-Forging Hot Pressing and	d	d	d	d	1	up to 200	EN 10250- EN 10250-	1 1 1 1	a		





Scop	be: 🛛 Directiv	ve 2014/68/EU Anne	ex I point	4.3		ΠE	N 76	4-4			🖂 AD 200	AD 2000-Merkblatt W 0			
	Certificate holder (Man	ufacturer of materials)		Manufa	acturin	g plant			N	ationality	Page No.:	15			
Comp	oany Name: Forgiatura A	Vienna S.r.I.		Forgiatura	a A.Vie	enna S.	r.I.			IT	of :	16	TÜV Rheinland		
Locat	ion: Via Ospiate,	Via Ospiate, 46/48			Via Ospiate, 46/48			c			Date:	18.12.2024	Industrie Service		
	I-20017 Rho	(Milan) - Italy		I-20017 Rho - MI	1-260	040 Cel	la Dat	i-CR			Rev.:	05	GmbH		
Cur	Materials-term Materials-No.	Material Specification	Material Delivery		Thick	Dimen -ness		Ø		eight ax	Fechnical Speci Requireme	fications	Remarks		
					m	m	r	nm		=t / =kg	Technical Regulations				
1	2	3	4	5	from 6a	Up to 6b	fro m 7a	Up to 7b	₩ 8a	res ult 8b	9		10		
3 M	aterials according to in	÷		Ţ		-		70	Ua		9		10		
23	X2CrNiMoCuWN25-7-4 (1.450		+AT		Jorunni	2 10 4.					EN 10250-	-1	а		
24	X2CrNiMoN 22-5-3 (1.4462)	EN 10250-4	+AT	* Disks, flanges, shafts, plates, rods						50/200 Tons	EN 10250-	-1	а		
	X3CrNiMo17-13-3 (1.4436)	EN 10250-4	+AT	snatts, plates, rods and mechanical pieces for several uses. ** Production Process: Hot-Forging			-	al		ring rolling up to 50/	EN 10250-	-1	а		
25	August 10-0 (1.400)				_		d	d		ollic					
25 26	X5CrNi18-10 (1.4301)	EN 10250-4	+AT	Process:	d	d	_			d ring r	EN 10250-	-1	а		
	, , , , , , , , , , , , , , , , , , ,	EN 10250-4 EN 10250-4	+AT +AT	Process:	d	d				and	EN 10250- EN 10250-		a		
26	X5CrNi18-10 (1.4301)			Process: Hot-Forging Hot Pressing and	d	d				Forging and ring r		-1			
26 27	X5CrNi18-10 (1.4301) X5CrNiMo17.12.2 (1.4401) X6CrNi18-10 (1.4948) rks +AT = solution +AR = as rolled +M = thermo r	EN 10250-4 EN 10250-4 annealed	+AT +AT	Process: Hot-Forging Hot Pressing and Ring-Rolling +NT = n +QT = q	ormaliz uenche oft ann	zed and ealed	temp			and	EN 10250- EN 10250- a = PMA in Dir	-1 -1 for the use in pr rective 2014/68/l	a a ressure equipment		



Scop	be:	Directive 2	014/68/EU Anne	x I point	4.3		E	N 76	4-4				AD 2000-Merkblatt W 0		
	Certifica	te holder (Manufac	turer of materials)		Manufa	acturin	g plant			N	ationa	ality	Page No.:	16	
Comp	any Name:	Forgiatura A.Vier	nna S.r.I.		Forgiatura	enna S.		IT		of :	16	TÜV Rheinland			
Locati	ion:	Via Ospiate, 46/48			Via Ospiate, 46/48	via Alf				Date:	18.12.20	24 Industrie Service			
		I-20017 Rho (Mil	I-20017 Rho - MI	040 Ce				Rev.:	05	GmbH					
Cur		ials-term rials-No.	Material Specification	Delivery Cond.	Article Type of Product	Thick	Dimen -ness m	n	Ø nm	n	eight nax =t / = <u>kg</u>		chnical Specif Requiremer echnical Regu	nts	Remarks
						from	Up to	fro m	Up to	↓↓	res ult				
1		2	3		5	6a	6b		7b	8a	8b	9			10
materi	ial appraisal. Wit	th that the manufact	uring reliability for ea	uivalent ma		ng to o	ther sta								approval or to the particula nents and limits of the
29		17-12-2 (1.4571)	EN 10250-4	+AT	* Disks, flanges, shafts, plates, rods and mechanical	orumn	2 10 4.				g up to		EN 10250-	1	а
30	X6CrNiNb ²	18-10 (1.4550)	B-10 (1.4550) EN 10250-4	+AT	pieces for several uses. ** Production	d	d	d	d	1	l ring rolling 1 200 Tons		EN 10250-1		а
31	X6CrNiTi1	8-10 (1.4541)	-10 (1.4541) EN 10250-4 +AT		Process: Hot-Forging Hot Pressing and Ring-Rolling						Forging and 50/20		EN 10250-1		а
Rema	<u>rks</u> +AT +AR +M +N	= thermo mech	ealed nanical treated or normalizing forme	d	+QT = qı +S = so	uenche oft ann	zed and ed and ealed elieved						in Dir	ective 2014	in pressure equipment 4/68/EU neccessary to the technical standard