

Zertifikat

Qualitätsmanagement-System für Werkstoffhersteller nach Richtlinie 2014/68/EU

Zertifikat Nr.:

01 202 E/Q-02 6904

Name und Anschrift des
Herstellers:

Sidenor Aceros Especiales, S.L.U.
Bº Ugarte, s/n
E - 48970 Basauri BIZKAIA

Hiermit wird bescheinigt, dass der Hersteller ein QM-System eingeführt hat und anwendet. Dieses wurde gemäß der Richtlinie 2014/68/EU, Anhang I, Kap 4.3 in Bezug auf die im Geltungsbereich genannten Werkstoffe einer spezifischen Überprüfung unterzogen.

Geprüft nach Richtlinie
2014/68/EU:

**QM-System nach EN 764-5, Abschnitt 4.2 und
AD 2000-Merkblatt W0**

Auditbericht Nr.:

E/Q-02 6904

Geltungsbereich:

HERSTELLER VON STAHLSTANGEN; IN MATERIAL:
KOHLENSTAHL, LEGIERUNG UND EDELSTAHL VON 5
mm Ø BIS 230 mmØ, siehe Anlage zum Zertifikat

Fertigungsstätte/Lieferer:

Bº Ugarte, s/n, E - 48970 Basauri BIZKAIA
Portal de Gamarra, 22, E - 01013 Vitoria (Alava)
Paseo de Alejandro Calonge, s/n, E - 39200 Reinosa
(Cantabria)
Planta de Azkoitia, E - 20720 Azkoitia (Gipuzkoa)

Gültig bis:

31. Mai 2023

Köln, 18. April 2020

Dipl.-Ing. (FH) Vera Ruff



TÜV Rheinland Industrie Service GmbH
Notifizierte Stelle für Druckgeräte, Kennnummer: 0035
Am Grauen Stein, D-51105 Köln

E-008-D-Rev22

Scope according to		☒ Directive 2014/68/EU Annex I §4.3		☒ EN 764-4		☒ AD 2000-Merkblatt W0		☐ FPC, Regulation (EU) No. 305/2011(System 2+)				
Manufacturer				Work		Nationality		Date		Page No..		
Company Name: SIDENOR ACEROS ESPECIALES, S.L.U				PLANTA BASAURI		E		12.03.20		1		
Location: E 48970 BASAURI								Rev.: 6		of : 4		
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max		Technical Specifications Requirements Technical Regulations	Remarks
					Thick-ness mm		Ø mm		1=t / 2=kg			
					from	Up to	fr o m	Up to	↓	res ult		
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

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 or to the particular material appraisal. With that the manufacturing reliability for equivalent 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 listed in column 2 to 4.

	P 250 GH	EN 10273 - 1.0460	N	BARS	25	100					EN 10273
	X 6CrNiMoTi 17-12-2	EN 10272 1.4571	AT	BARS	25	100					EN 10272
	X 2CrNiMo 17-12-2	EN 10272 .3 1.4404	AT	BARS	25	100					EN 10272
	X 5CrNi 18-10	EN 10272 1.4301	AT	BARS	25	100					EN 10272
	X 6CrNiTi 18-10	EN 10272 1.4541	AT	BARS	25	100					EN 10272
	X5CrNiMo 17-12-2	EN 10272 1.4401	AT	BARS	25	100					EN 10272
	X2CrNi18-9	EN 10272 1.4307	AT	BARS	25	100					EN 10272
	X 8CrNiS 18-9	EN 10272 1.4305	AT	BARS	25	100					EN 10272
	1.7218	EN 10269	+S-+AC	BARS	25	100					EN 10269
	16 Mo 3	EN 10273 1.5415	QT	BARS	25	100					EN 10273
	13 CrMo 44	EN 10273 1.7335	QT	BARS	25	100					EN 10273
	10 CrMo 9-10	EN 10273 1.7380	QT	BARS	25	100					EN 10273
	X 8CrNiS 18-9	EN 10272 1.4305	AT	BARS	25	100					EN 10272

Remarks	+AT = solution annealed	+NT = normalized and tempered	a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary
	+AR = as rolled	+QT = quenched and tempered	
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Company Name: SIDENOR ACEROS ESPECIALES, S.L.U				PLANTA BASAURI		E		12.03.20		2		
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	S 235J2 S-235 JR S 275 JR S 275J2 S 355 J2 P 250 GH P 355 NH	EN 10025.2-1.0117 EN 10025.2 - 1.0038 EN 10025.2 - 1.0044 EN 10025.2 - 1.0145 EN 10.025.2 – 1.0577 EN 10273 - 1.0460 EN 10273 1.0565	N N N N N N N	BARS BARS BARS BARS BARS BARS BARS	25 25 25 25 25 25 25	100 100 100 100 100 100 100					AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13	a a a a a a a
2	21 CrMoV 5.7	EN 10269 1.7709	QT	BARS	25	100					AD 2000 W 7	
Remarks		+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed +NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary										

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	25 CrMo4	EN 10269.1 1.7218	QT	BARS	25	100					AD 2000 W 7	
	42 CrMo 4	EN 10269.1 1.7225	QT	BARS	25	100					AD 2000 W 7	
	X 6CrNiMoTi 17-12-2	EN 10272 1.4571	AT	BARS	25	100					AD 2000 W 2	
	X 2CrNiMo 17-12-2	EN 10272 1.4404	AT	BARS	25	100					AD 2000 W 2	
	X 5CrNi 18-10	EN 10272 1.4301	AT	BARS	25	100					AD 2000 W 2	
	X 6CrNiTi 18-10	EN 10272 1.4541	AT	BARS	25	100					AD 2000 W 2	
	X5CrNiMo 17-12-2	EN 10272 1.4401	AT	BARS	25	100					AD 2000 W 2	
	X2CrNi18-9	EN 10272 1.4307	AT	BARS	25	100					AD 2000 W 2	

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					Thick-ness mm		Ø mm					
1	2	3	4	5	from 6a	Up to 6b	fr 7	Up 7b	8a	8b	9	10
3. Materials according to international standards (e. g. ASTM, ASME, IBR etc.)												
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	X 20 Cr 13 1.7258	DIN17440 1.4021 DIN 17240	+QT +QT	BARS BARS	25 25	100 100					DIN17440 DIN 17240	a 3-2 Certificate a 3-2 Certificate
	B7 L7 B16	ASTM A 193 ASTM A 320 ASTM A 193	+QT +QT +QT	BARS BARS BARS	25 25 25	100 100 100					ASTM A 193 ASTM A 320 ASTM A 193	a a a
	75 K + [AISI 4130]	API6A / ISO 10423 [ASTM A 29]	+QT	BARS	25	100					API6A / ISO 10423 [ASTM A 29]	a
	S 235J2 S-235 JR S 275 JR S 275J2 S 355 JR S 355 J2	EN 10025.2-1.0117 EN 10025.2 - 1.0038 EN 10025.2 - 1.0044 EN 10025.2 - 1.0145 EN 10025.2 - 1.0045 EN 10.025.2 - 1.0577	N-AR N-AR N-AR N-AR N-AR N-AR	BARS BARS BARS BARS BARS BARS	25 25 25 25 25 25	100 100 100 100 100 100					EN 10025.2 EN 10025.2 EN 10025.2 EN 10025.2 EN 10025.2 EN 10.025.2	a a a a a a
	34 CrNiMo 6 25 CrMo4 42 CrMo 4 34 CrNiMo 6 40CrMoV4.6	EN 10083.3 1.6582 EN 10083.3 1.7218 EN 10083.3 1.7225 EN 10269 1.6582 EN 10269 1.7711	QT QT QT QT QT	BARS BARS BARS BARS BARS	25 25 25 25 25	100 100 100 100 100					EN 10083.3 EN 10083.3 EN 10083.3 EN 10269 EN 10269	a a a a a
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Manufacturer				Work		Nationality		Date				
Company Name: SIDENOR ACEROS ESPECIALES, S.L.U.				PLANTA AZKOITIA		E		12.03.20				
Location: : E 20720 AZKOITIA (GUPUZKOA)						Rev.: 6		of : 4				
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max 1=t / 2=kg ↓ res ult	Technical Specifications Requirements Technical Regulations	Remarks	
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	X 2CrNiMo 17-12-2	EN 10272 .3 1.4404	+AT	BARS	19	200					EN 10272	
	X 5CrNi 18-10	EN 10272 1.4301	+AT	BARS	19	200					EN 10272	
	1.7218	EN 10269	+S	BARS	19	200					EN 10269	
	16 Mo 3	EN 10273 1.5415	+QT	BARS	19	200					EN 10273	
	13 CrMo 44	EN 10273 1.7335	+QT	BARS	19	200					EN 10273	
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Manufacturer				Work				Nationality	Date	Page No..		
Company Name: SIDENOR ACEROS ESPECIALES, S.L.U.				PLANTA AZKOITIA				E	12.03.20	2	TÜV Rheinland Industrie Service GmbH	
Location: : E 20720 AZKOITIA (GUPUZKOA)								Rev.: 6	of : 4			
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1	S 235J2 S-235 JR S 275 JR S 275J2 S 355 J2 P 250 GH P 355 NH	EN 10025.2-1.0117 EN 10025.2 - 1.0038 EN 10025.2 - 1.0044 EN 10025.2 - 1.0145 EN 10.025.2 – 1.0577 EN 10273 - 1.0460 EN 10273 1.0565	+N +N +N +N +N +N +N	BARS BARS BARS BARS BARS BARS BARS	19 19 19 19 19 19 19	200 200 200 200 200 200 200					AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13	a a a a a a
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Annex to Certificate No. : . 01 202 E/Q-02 6904 04


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Location: : E 20720 AZKOITIA (GUPUZKOA)								Rev.: 6	
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	25 CrMo4 42 CrMo 4	EN 10269.1 1.7218 EN 10269.1 1.7225	+QT +QT	BARS BARS	19 19	200 200			AD 2000 W 7 AD 2000 W 7
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	X 20 Cr 13 1.7258 B7 L7 B16	DIN17440 1.4021 DIN 17240 ASTM A 193 ASTM A 320 ASTM A 193	+QT +QT +QT +QT +QT	BARS BARS BARS BARS BARS	19 19 19 19 19	200 200 200 200 200				DIN17440 DIN 17240 ASTM A 193 ASTM A 320 ASTM A 193	a 3-2 Certificate a 3-2 Certificate a a a	
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	S 235J2 S-235 JR S 275 JR S 275J2 S 355 JR S 355 J2 34 CrNiMo 6 25 CrMo4 42 CrMo 4 34 CrNiMo 6 40CrMoV4.6	EN 10025.2-1.0117 EN 10025.2 - 1.0038 EN 10025.2 - 1.0044 EN 10025.2 - 1.0145 EN 10025.2 - 1.0045 EN 10.025.2 - 1.0577 EN 10083.3 1.6582 EN 10083.3 1.7218 EN 10083.3 1.7225 EN 10269 1.6582 EN 10269 1.7711	+N-AR +N-AR +N-AR +N-AR +N-AR +N-AR +QT +QT +QT +QT +QT	BARS BARS BARS BARS BARS BARS BARS BARS BARS BARS BARS	19 19 19 19 19 19 19 19 19 19 19	200 200 200 200 200 200 200 200 200 200 200				EN 10025.2 EN 10025.2 EN 10025.2 EN 10025.2 EN 10025.2 EN 10.025.2 EN 10083.3 EN 10083.3 EN 10083.3 EN 10269 EN 10269	a a a a a a a a a a a	
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Location: E 39200 REINOSA (CANTABRIA)								Rev.: 6				
								Page No.: 1 of 5				
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max 1=t / 2=kg ↓ res ult	Technical Specifications Requirements Technical Regulations	Remarks 	
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TÜVRheinland®
Industrie Service
85824

2. Materials according to the AD 2000-Code

The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent 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 listed in column 2 to 4.

1	S 235J2 S-235 JR S 275 JR S 275J2 S 355 J2 P 250 GH P 355 NH	EN 10025.2-1.0117 EN 10025.2 - 1.0038 EN 10025.2 - 1.0044 EN 10025.2 - 1.0145 EN 10.025.2 – 1.0577 EN 10273 - 1.0460 EN 10273 1.0565	+N +N +N +N +N +N +N	BARS BARS BARS BARS BARS BARS BARS	100 100 100 100 100 100 100	230 230 230 230 230 150 150					AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13	a a a a a a a
2	21 CrMoV 5.7	EN 10269 1.7709	+QT	BARS	100	160					AD 2000 W 7	

Remarks	+AT = solution annealed	+NT = normalized and tempered	a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary
	+AR = as rolled	+QT = quenched and tempered	
	+M = thermo mechanical treated	+S = soft annealed	
	+N = normalized or normalizing formed	+SR = stress relieved	

Scope according to		☒ Directive 2014/68/EU Annex I §4.3		☒ EN 764-4		☒ AD 2000-Merkblatt W0		☐ FPC, Regulation (EU) No. 305/2011(System 2+)				
Manufacturer				Work		Nationality		Date		Page No..		
Company Name: SIDENOR ACEROS ESPECIALES, S.L.U.				PLANTA REINOSA		E		12.03.20		3		
Location: E 39200 REINOSA (CANTABRIA)								Rev.: 6		of : 5		
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max 1=t / 2=kg ↓ res ult	Technical Specifications Requirements Technical Regulations	Remarks	
					Thick-ness mm		Ø mm					
					from	Up to	from	Up to				
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10

2. Materials according to the AD 2000-Code

The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent 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 listed in column 2 to 4.

3	25 CrMo4	EN 10269. 1.7218	+QT	BARS	100	150					AD 2000 W 7	
	X 6CrNiMoTi 17-12-2	EN 10272 1.4571	+AT	BARS	100	230					AD 2000 W 2	
	X 2CrNiMo 17-12-2	EN 10272 1.4404	+AT	BARS	100	230					AD 2000 W 2	
	X 5CrNi 18-10	EN 10272 1.4301	+AT	BARS	100	230					AD 2000 W 2	
	X 6CrNiTi 18-10	EN 10272 1.4541	+AT	BARS	100	230					AD 2000 W 2	
	X5CrNiMo 17-12-2	EN 10272 1.4401	+AT	BARS	100	230					AD 2000 W 2	
	X2CrNi18-9	EN 10272 1.4307	+AT	BARS	100	230					AD 2000 W 2	

Remarks	+AT = solution annealed	+NT = normalized and tempered	a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary
	+AR = as rolled	+QT = quenched and tempered	
	+M = thermo mechanical treated	+S = soft annealed	
	+N = normalized or normalizing formed	+SR = stress relieved	

Scope according to		☒ Directive 2014/68/EU Annex I §4.3		☒ EN 764-4		☒ AD 2000-Merkblatt W0		☐ FPC, Regulation (EU) No. 305/2011(System 2+)				
Manufacturer				Work		Nationality		Date		Page No..		
Company Name: SIDENOR ACEROS ESPECIALES, S.L.U.				PLANTA REINOSA		E		12.03.20		4		
Location: E 39200 REINOSA (CANTABRIA)								Rev.: 6		of : 5		
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max 1=t / 2=kg ↓ res ult	Technical Specifications Requirements Technical Regulations	Remarks	
					Thick-ness mm		Ø mm					
					from	Up to	from	Up to				
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10

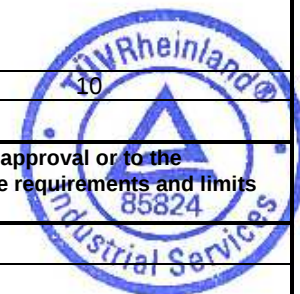
3. Materials according to international standards (e. g. ASTM, ASME, IBR etc.)

The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent 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 listed in column 2 to 4.

X 20 Cr 13 1.7258	DIN17440 1.4021 DIN 17240	+QT +QT	BARS BARS	100 100	230 160					DIN17440 DIN 17240	a 3-2 Certificate a 3-2 Certificate
B7 L7 B16	ASTM A 193 ASTM A 320 ASTM A 193	+QT +QT +QT	BARS BARS BARS	100 100 100	180 230 180					ASTM A 193 ASTM A 320 ASTM A 193	a a a
75 K + [AISI 4130]	API6A / ISO 10423 [ASTM A 29]	+QT	BARS	100	230					API6A / ISO 10423 [ASTM A 29]	a
S 235J2 S-235 JR S 275 JR S 275J2 S 355 JR S 355 J2	EN 10025.2-1.0117 EN 10025.2 - 1.0038 EN 10025.2 - 1.0044 EN 10025.2 - 1.0145 EN 10025.2 - 1.0045 EN 10.025.2 - 1.0577	+N+AR +N+AR +N+AR +N+AR +N+AR +N+AR	BARS BARS BARS BARS BARS BARS	100 100 100 100 100 100	230 230 230 230 230 230					EN 10025.2 EN 10025.2 EN 10025.2 EN 10025.2 EN 10025.2 EN 10.025.2	a a a a a a
34 CrNiMo 6 25 CrMo4 42 CrMo 4	EN 10083.3 1.6582 EN 10083.3 1.7218 EN 10083.3 1.7225	+QT +QT +QT	BARS BARS BARS	100 100 100	230 230 320					EN 10083.3 EN 10083.3 EN 10083.3	a a a

Results	+AT = solution annealed	+NT = normalized and tempered	a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary
	+AR = as rolled	+QT = quenched and tempered	
	+M = thermo mechanical treated	+S = soft annealed	
	+N = normalized or normalizing formed	+SR = stress relieved	

Scope according to		☒ Directive 2014/68/EU Annex I §4.3		☒ EN 764-4		☒ AD 2000-Merkblatt W0		☐ FPC, Regulation (EU) No. 305/2011(System 2+)				
Manufacturer				Work				Nationality	Date	Page No..		
Company Name: SIDENOR ACEROS ESPECIALES, S.L.U.				PLANTA REINOSA				E	12.03.20	5	TÜV Rheinland Industrie Service GmbH	
Location: E 39200 REINOSA (CANTABRIA)								Rev.: 6	of : 5			
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max 1=t / 2=kg ↓ res ult	Technical Specifications Requirements Technical Regulations	Remarks	
					Thick-ness mm		Ø mm					
					from	Up to	from	Up to				
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
3. Materials according to international standards (e. g. ASTM, ASME, IBR etc.) The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent 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 listed in column 2 to 4.												
	34 CrNiMo 6 40CrMoV4.6	EN 10269 1.6582 EN 10269 1.7711	+QT +QT	BARS BARS	100 100	120 160					EN 10269 EN 10269	a a
Results		+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed				+NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved				a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary		



Scope according to		☒ Directive 2014/68/EU Annex I §4.3		☒ EN 764-4		☒ AD 2000-Merkblatt W0		☐ FPC, Regulation (EU) No. 305/2011(System 2+)				
Manufacturer				Work		Nationality		Date		Page No..		
Company Name: SIDENOR ACEROS ESPECIALES, S.L.U.				PLANTA VITORIA		E		12.03.20		1		
Location: E 01013 VITORIA (ARABA)								Rev.: 6		of : 3		
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max 1=t / 2=kg ↓ res ult	Technical Specifications Requirements Technical Regulations	Remarks 	
					Thick-ness mm		Ø mm					
					from	Up to	from	Up to				
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 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 or to the particular material appraisal. With that the manufacturing reliability for equivalent 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 listed in column 2 to 4.												
	P 250 GH	EN 10273 - 1.0460	+N	BARS	--	26					EN 10273	
	X 6CrNiMoTi 17-12-2	EN 10272 1.4571	+AT	BARS	--	26					EN 10272	
	X 8CrNiS 18-9	EN 10272 1.4305	+AT	BARS								
	X 2CrNiMo 17-12-2	EN 10272 .3 1.4404	+AT	BARS	--	26					EN 10272	
	X 5CrNi 18-10	EN 10272 1.4301	+AT	BARS	--	26					EN 10272	
	1.7218	EN 10269	+S	BARS	--	26					EN 10269	
	16 Mo 3	EN 10273 1.5415	+QT	BARS	--	26					EN 10273	
	13 CrMo 44	EN 10273 1.7335	+QT	BARS	--	26					EN 10273	
	10 CrMo 9-10	EN 10273 1.7380	+QT	BARS	--	26					EN 10273	
Remarks		+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed +NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary										

Scope according to		☒ Directive 2014/68/EU Annex I §4.3		☒ EN 764-4		☒ AD 2000-Merkblatt W0		☐ FPC, Regulation (EU) No. 305/2011(System 2+)				
Manufacturer				Work		Nationality		Date		Page No..		
Company Name: SIDENOR ACEROS ESPECIALES, S.L.U.				PLANTA VITORIA		E		12.03.20		2		
Location: E 01013 VITORIA (ARABA)								Rev.: 6		of : 3		
Cur -	Materials-term Materials-No.	Material Specification	Delivery Con d.	Article Type of Product	Dimensions				Weight max 1=t / 2=kg ↓ res ult	Technical Specifications Requirements Technical Regulations	Remarks	
					Thick- ness mm	Ø mm						
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	
2. Materials according to the AD 2000-Code The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent 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 listed in column 2 to 4.												
1	S 235J2 S-235 JR S 275 JR S 275J2 S 355 J2 P 250 GH P 355 NH	EN 10025.2-1.0117 EN 10025.2 - 1.0038 EN 10025.2 - 1.0044 EN 10025.2 - 1.0145 EN 10.025.2 – 1.0577 EN 10273 - 1.0460 EN 10273 1.0565	+N +N +N +N +N +N +N	BARS BARS BARS BARS BARS BARS BARS	-- -- -- -- -- -- --	26 26 26 26 26 26 26					AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13	a a a a a a a
2	21 CrMoV 5.7 25 CrMo4 42 CrMo 4	EN 10269 1.7709 EN 10269.1 1.7218 EN 10269.1 1.7225	+QT +QT +QT	BARS BARS BARS	-- -- --	26 26 26					AD 2000 W 7 AD 2000 W 7 AD 2000 W 7	
Remarks		+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed +NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary										

Scope according to		☒ Directive 2014/68/EU Annex I §4.3		☒ EN 764-4		☒ AD 2000-Merkblatt W0		☐ FPC, Regulation (EU) No. 305/2011(System 2+)				
Manufacturer				Work		Nationality		Date				
Company Name: SIDENOR ACEROS ESPECIALES, S.L.U.				PLANTA VITORIA		E		12.03.20				
Location: E 01013 VITORIA (ARABA)						Rev.: 6		of :3				
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max 1=t / 2=kg ↓ r	Technical Specifications Requirements Technical Regulations	Remarks	
					Thick-ness mm		Ø mm					
1	2	3	4	5	6a	6b	7a	7b	8	8	9	

3. Materials according to international standards (e. g. ASTM, ASME, IBR etc.)

The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent 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 listed in column 2 to 4.

X 20 Cr 13 1.7258	DIN17440 1.4021 DIN 17240	+QT +QT	BARS BARS	-- --	26 26				DIN17440 DIN 17240	a 3-2 Certificate a 3-2 Certificate
B7 L7 B16	ASTM A 193 ASTM A 320 ASTM A 193	+QT +QT +QT	BARS BARS BARS	-- -- --	26 26 26				ASTM A 193 ASTM A 320 ASTM A 193	a a a
75 K + [AISI 4130]	API6A / ISO 10423 [ASTM A 29]	+QT	BARS	--	26				API6A / ISO 10423 [ASTM A 29]	a
S 235J2 S-235 JR S 275 JR S 275J2 S 355 JR S 355 J2	EN 10025.2-1.0117 EN 10025.2 - 1.0038 EN 10025.2 - 1.0044 EN 10025.2 - 1.0145 EN 10025.2 - 1.0045 EN 10.025.2 - 1.0577	N-AR N-AR N-AR N-AR N-AR N-AR	BARS BARS BARS BARS BARS BARS	-- -- -- -- -- --	26 26 26 26 26 26				EN 10025.2 EN 10025.2 EN 10025.2 EN 10025.2 EN 10025.2 EN 10.025.2	a a a a a a
34 CrNiMo 6 25 CrMo4 42 CrMo 4 34 CrNiMo 6 40CrMoV4.6	EN 10083.3 1.6582 EN 10083.3 1.7218 EN 10083.3 1.7225 EN 10269 1.6582 EN 10269 1.7711	QT QT QT QT QT	BARS BARS BARS BARS BARS	-- -- -- -- --	26 26 26 26 26				EN 10083.3 EN 10083.3 EN 10083.3 EN 10269 EN 10269	a a a a a

Remarks	+AT = solution annealed	+NT = normalized and tempered	a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary
	+AR = as rolled	+QT = quenched and tempered	
	+M = thermo mechanical treated	+S = soft annealed	
	+N = normalized or normalizing formed	+SR = stress relieved	