

Certificado

Sistema de aseguramiento de calidad para fabricante de Materiales según la Directiva 2014/68/EU

Certificado no.:

01 202 E/Q-02 6904

Nombre y dirección del
fabricante:

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

Por la presente se certifica que el fabricante de materiales ha introducido un sistema de calidad. El sistema de calidad ha sido auditado según la Directiva Europea 2014/68/EU, Apéndice I, Sección 4.3 para equipos a presión de acuerdo a los materiales listados en el ámbito de aprobación.

Comprobado según la
Directiva 2014/68/EU:

**Sistema de calidad según EN 764-5, sección 4.2 y
AD 2000-Merkblatt W0**

No. del informe del auditor:

E/Q-02 6904

Ámbito de aprobación:

FABRICANTE DE BARRAS DE ACERO; EN MATERIAL:
ACERO AL CARBONO, ALEADO E INOXIDABLE DESDE
5 mm Ø HASTA 230 mmØ ver anexo, ver anexo del
certificado

Planta de producción:

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)

Válido hasta:

31 de mayo de 2023

Colonia, 18 de abril de 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				PLANT BASAURI		E		07.07.20		1		
Location: E 48970 BASAURI								Rev.: 7		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	fr o m	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.												
1	X 6CrNiMoTi 17-12-2 X 2CrNiMo 17-12-2 X 5CrNi 18-10 X 6CrNiTi 18-10 X5CrNiMo 17-12-2 X2CrNi18-9	EN 10272 1.4571 EN 10272 1.4404 EN 10272 1.4301 EN 10272 1.4541 EN 10272 1.4401 EN 10272 1.4307	+AT +AT +AT +AT +AT +AT	BARS BARS BARS BARS BARS BARS	25 25 25 25 25 25	100 100 100 100 100 100					EN 10272 EN 10272 EN 10272 EN 10272 EN 10272 EN 10272	
2	25 CrMo4 34 CrNiMo 6 40CrMoV4.6 21 CrMoV 5.7 42 CrMo 4	EN 10269 1.7218 EN 10269 1.6582 EN 10269 1.7711 EN 10269 1.7709 EN 10269 1.7225	+S,+QT +QT +QT +QT +QT	BARS BARS BARS BARS BARS	25 25 25 25 25	100 100 100 100 65					EN 10269 EN 10269 EN 10269 EN 10269 EN 10269	***
3	P 250 GH 16 Mo 3 13 CrMo 45 10 CrMo 9-10	EN 10273 - 1.0460 EN 10273 1.5415 EN 10273 1.7335 EN 10273 1.7380	+N +QT +QT +QT	BARS BARS BARS BARS	25 25 25 25	100 100 100 100					EN 10273 EN 10273 EN 10273 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 *** Over limits will need PMA										

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Company Name: SIDENOR ACEROS ESPECIALES, S.L.U				PLANT BASAURI		E		07.07.20		2	
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1	2	3	4	5	6a	6b	7 a	7b	8a	8b	9
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4	S 235J2 S-235 JR S 275 JR S 275J2 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 - 1.0577	+N +N +N +N +N	BARS BARS BARS BARS BARS	25 25 25 25 25	100 100 100 100 100				AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13	a a a a a
5	P 250 GH P 355 NH	EN 10273 - 1.0460 EN 10273 1.0565	+N +N	BARS BARS	25 25	100 100				AD 2000 W13 AD 2000 W13	a a
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Location: E 48970 BASAURI				Rev.: 7	Page No.: 3 of 5							
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6	25 CrMo4 21 CrMoV 5.7 40CrMoV4.6 42 CrMo 4	EN 10269 1.7218 EN 10269 1.7709 EN 10269 1.7711 EN 10269 1.7225	+QT +QT +QT +QT	BARS BARS BARS BARS	25 25 25 25	100 100 100 60					AD 2000 W 7 AD 2000 W 7 AD 2000 W 7 AD 2000 W 7	a a a a	and 3-2 certificate and 3-2 certificate and 3-2 certificate and 3-2 certificate ***
7	X 6CrNiTi 18-10 X 6CrNiMoTi 17-12-2 X 2CrNiMo 17-12-2 X 5CrNi 18-10 X5CrNiMo 17-12-2 X2CrNi18-9	EN 10272 1.4541 EN 10272 1.4571 EN 10272 1.4404 EN 10272 1.4301 EN 10272 1.4401 EN 10272 1.4307	+AT +AT +AT +AT +AT +AT	BARS BARS BARS BARS BARS BARS	25 25 25 25 25 25	100 100 100 100 100 100					AD 2000 W 2 AD 2000 W 2 AD 2000 W 2 AD 2000 W 2 AD 2000 W 2 AD 2000 W 2	a a a a a a	

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Company Name: SIDENOR ACEROS ESPECIALES, S.L.U.		PLANT BASAURI		E	07.07.20	4	TÜV Rheinland Industrie Service GmbH					
Location: E 48970 BASAURI					Rev.: 7	of : 5						
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3. Materials according to international standards (e. g. ASTM, ASME, IBR etc.)												
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8	34 CrNiMo 6 25 CrMo4 30CrNiMo8 41 Cr4 42CrMoS4 42 CrMo 4	EN ISO 683 -2 1.6582 EN ISO 683 -2 1.7218 EN ISO 683-2 1.6580 EN ISO 683-2 1.7035 EN ISO 683-2 1.7227 EN ISO 683 -2 1.7225	+QT +QT +QT +QT +QT +QT	BARS BARS BARS BARS BARS BARS	25 25 25 25 25 25	100 100 100 100 100 100					EN ISO 683 -2 EN ISO 683 -2 EN ISO 683 -2 EN ISO 683 -2 EN ISO 683 -2 EN ISO 683 -2	a a a a a a
9	B7 L7 B16	ASTM A 193 ASTM A 320 ASTM A 193	+QT +QT +QT	BARS BARS BARS	25 25 25	100 65 100					ASTM A 193 ASTM A 320 ASTM A 193	a a + *** a
10	75 K + [AISI 4130]	API6A / ISO 10423 [ASTM A 29]	+QT	BARS	25	100					API6A / ISO 10423 [ASTM A 29]	a
11	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 10025.2	a a a a a a
Remarks												
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Company Name: SIDENOR ACEROS ESPECIALES, S.L.U.				PLANT BASAURI		E		07.07.20				
Location: E 48970 BASAURI						Rev.: 7		Page No.: 5 of : 5				
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12	X 8CrNiS 18-9 X 20 Cr 13 X 20 Cr 13 X 6CrNiMoTi 17-12-2 X 2CrNiMo 17-12-2 X 5CrNi 18-10 X 6CrNiTi 18-10 X5CrNiMo 17-12-2	EN 10088.3 1.4305 EN 10088.3 1.4021 EN 10088.3 1.4021 EN 10088.3 1.4571 EN 10088.3 1.4404 EN 10088.3 1.4301 EN 10088.3 1.4541 EN 10088.3 1.4401	+AT +AT +QT +AT +AT +AT +AT +AT	BARS BARS BARS BARS BARS BARS BARS BARS	25 25 25 25 25 25 25 25	100 100 100 100 100 100 100 100					EN 10088.3 EN 10083.3 EN 10083.3 EN 10083.3 EN 10083.3 EN 10083.3 EN 10083.3 EN 10083.3	a a a a a a a a	and 3-2 certificate
13	304, 304L 316, 316L, 316Ti 309 H 303	ASTM 479 S30400, S30403 ASTM 479 S31600 S31603, S31635 ASTM 479 S 30909 ASTM 479 S 30300	+AT +AT +AT +AT	BARS BARS BARS BARS	25 25 25 25	76,2 76,2 76,2 76,2					ASTM 479 ASTM 479 ASTM 479 ASTM 479	a + *** a + *** a + *** a + ***	and 3-2 certificate
14	F5 F9 F11 F91	ASTM A 182/ ASME SA 182 K42544 ASTM A 182/ ASME SA 182 K90941 ASTM A 182/ ASME SA 182 K 11597 ASTM A 182/ ASME SA 182 K90901	+QT +QT +QT +QT	BARS BARS BARS BARS	25 25 25 25	100 100 100 100					ASTM A 182/ ASME SA 182 ASTM A 182/ ASME SA 182 ASTM A 182/ ASME SA 182 ASTM A 182/ ASME SA 182	a a a a	and 3-2 certificate

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Manufacturer				Work		Nationality		Date				
Company Name: SIDENOR ACEROS ESPECIALES, S.L.U.				PLANTA AZKOITIA		E		10.07.20				
Location: : E 20720 AZKOITIA (GUPUZKOA)						Rev.: 7		Page No.: 1 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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1	X 6CrNiMoTi 17-12-2 X 2CrNiMo 17-12-2 X 5CrNi 18-10	EN 10272 1.4571 EN 10272 1.4404 EN 10272 1.4301	+AT +AT +AT	BARS BARS BARS	19 19 19	200 200 200					EN 10272 EN 10272 EN 10272	
2	P 250 GH 16 Mo 3 13 CrMo 44 10 CrMo 9-10	EN 10273 1.0460 EN 10273 1.5415 EN 10273 1.7335 EN 10273 1.7380	+N +QT +QT +QT	BARS BARS BARS BARS	19 19 19 19	150 150 150 150					EN 10273 EN 10273 EN 10273 EN 10273	*** *** *** ***
3	25 CrMo4 34 CrNiMo 6 40CrMoV4.6 21 CrMoV 5.7 42 CrMo 4	EN 10269 1.7218 EN 10269 1.6582 EN 10269 1.7711 EN 10269 1.7709 EN 10269 1.7225	+S,+QT +QT +QT +QT +QT	BARS BARS BARS BARS BARS	19 19 19 19 19	150 100 160 160 65					EN 10269 EN 10269 EN 10269 EN 10269 EN 10269	*** *** *** *** ***
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Company Name: SIDENOR ACEROS ESPECIALES, S.L.U.				PLANTA AZKOITIA				E	10.07.20	2	TÜV Rheinland Industrie Service GmbH	
Location: : E 20720 AZKOITIA (GUPUZKOA)								Rev.: 7	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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4	S 235J2 S-235 JR S 275 JR S 275J2 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 1.0577	+N +N +N +N +N	BARS BARS BARS BARS BARS	19 19 19 19 19	200 200 200 200 200					AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13	a a a a a
5	P 250 GH P 355 NH	EN 10273 1.0460 EN 10273 1.0565	+N +N	BARS BARS	19 19	150 150					AD 2000 W13 AD 2000 W13	*** ***
6	25 CrMo4 34 CrNiMo 6 40CrMoV4.6 21 CrMoV 5.7 42 CrMo 4	EN 10269 1.7218 EN 10269 1.6582 EN 10269 1.7711 EN 10269 1.7709 EN 10269 1.7225	+QT +QT +QT +QT +QT	BARS BARS BARS BARS BARS	19 19 19 19 19	150 100 160 160 65					AD 2000 W 7 AD 2000 W 7 AD 2000 W 7 AD 2000 W 7 AD 2000 W 7	a a a a a and 3-2 certificate *** and 3-2 certificate *** and 3-2 certificate *** and 3-2 certificate *** and 3-2 certificate ***
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7	X 20 Cr 13	EN 10088.3 1.4021	+QT	BARS	19	200				DIN17440	a
9	B7	ASTM A 193	+QT	BARS	19	177,8				ASTM A 193	a + ***
	L7	ASTM A 320	+QT	BARS	19	65				ASTM A 320	a + ***
	B16	ASTM A 193	+QT	BARS	19	200				ASTM A 193	***
10	75 K + [AISI 4130]	API6A / ISO 10423 [ASTM A 29]	+QT	BARS	19	200				API6A / ISO 10423 [ASTM A 29]	a
11	S 235J2	EN 10025.2 1.0117	+N,+AR	BARS	19	200				EN 10025.2	a
	S-235 JR	EN 10025.2 1.0038	+N,+AR	BARS	19	200				EN 10025.2	a
	S 275 JR	EN 10025.2 1.0044	+N,+AR	BARS	19	200				EN 10025.2	a
	S 275J2	EN 10025.2 1.0145	+N,+AR	BARS	19	200				EN 10025.2	a
	S 355 JR	EN 10025.2 1.0045	+N,+AR	BARS	19	200				EN 10025.2	a
12	S 355 J2	EN 10025.2 1.0577	+N,+AR	BARS	19	200				EN 10.025.2	a
	34 CrNiMo 6	EN ISO 683.2 1.6582	+QT	BARS	19	200				EN ISO 683-2	a
	25 CrMo4	EN ISO 683.2 1.7218	+QT	BARS	19	160				EN ISO 683-2	a + ***
	30CrNiMo8	EN ISO 683.2 1.6580	+QT	BARS	19	200				EN ISO 683-2	a
	42 CrMo 4	EN ISO 683.2 1.7225	+QT	BARS	19	200				EN ISO 683-2	a
	42CrMoS4	EN ISO 683.2 1.7227	+QT	BARS	19	200				EN ISO 683-2	a
	41 Cr4	EN ISO 683-2 1.7035	+QT	BARS	19	100				EN ISO 683-2	a + *** 3.2 certificate

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Location: : E 20720 AZKOITIA (GUPUZKOA)								Rev.: 7	of : 4			
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13	F5 F9 F11 F91	ASTM A 182/ ASME SA 182 K42544 ASTM A 182/ ASME SA 182 K90941 ASTM A 182/ ASME SA 182 K 11597 ASTM A 182/ ASME SA 182 K90901	+QT +QT +QT +QT	BARS BARS BARS BARS	BARS BARS BARS BARS	19 19 19 19	200 200 200 200				a a a certificate 3·2 a	
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 *** Over limits will need PMA										



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 REINOSA		E		10.07.20			
Location: E 39200 REINOSA (CANTABRIA)						Rev.: 7		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
					Thick-ness mm		Ø mm				
					from	Up to	fr o m	Up to			
1	2	3	4	5	6a	6b	7 a	7b	8a	8b	9


 85224
 Industrial Services

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.

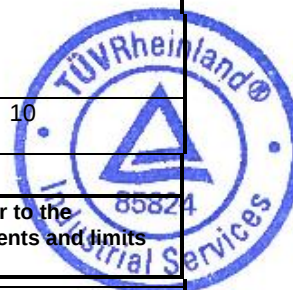
1	X 6CrNiMoTi 17-12-2 X 2CrNiMo 17-12-2 X 5CrNi 18-10 X 6CrNiTi 18-10 X 5CrNiMo 17-12-2 X 2CrNi18-9 X 8CrNiS 18-9	EN 10272 1.4571 EN 10272 3.14404 EN 10272 1.4301 EN 10272 1.4541 EN 10272 1.4401 EN 10272 1.4307 EN 10272 1.4305	+AT +AT +AT +AT +AT +AT +AT	BARS BARS BARS BARS BARS BARS BARS	100 100 100 100 100 100 100	230 230 230 230 230 230 230					EN 10272 EN 10272 EN 10272 EN 10272 EN 10272 EN 10272 EN 10272	
2	25 CrMo4 34 CrNiMo 6 40CrMoV4.6 21 CrMoV 5.7 42 CrMo 4	EN 10269 1.7218 EN 10269 1.6582 EN 10269 1.7711 EN 10269 1.7709 EN 10269 1.7225	+S, +QT +QT +QT +QT +QT	BARS BARS BARS BARS BARS	100 100 100 100 100	150 120 160 160 65					EN 10269 EN 10269 EN 10269 EN 10269 EN 10269	*** *** *** *** ***
3	P 250 GH 16 Mo 3 13 CrMo 45 10 CrMo 9-10	EN 10273 1.0460 EN 10273 1.5415 EN 10273 1.7335 EN 10273 1.7380	+N +QT +QT +QT	BARS BARS BARS BARS	100 100 100 100	150 150 150 150					EN 10273 EN 10273 EN 10273 EN 10273	*** *** *** ***

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	*** Over limits will need PMA

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		10.07.20		2		
Location: E 39200 REINOSA (CANTABRIA)								Rev.: 7		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	
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.												
4	S 235J2 S-235 JR S 275 JR S 275J2 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 1.0577	+N +N +N +N +N	BARS BARS BARS BARS BARS	100 100 100 100 100	230 230 230 230 230					AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13	a a a a a
5	P 250 GH P 355 NH	EN 10273 1.0460 EN 10273 1.0565	+N +N	BARS BARS	100 100	150 150					AD 2000 W13 AD 2000 W13	a + *** a + ***
6	25 CrMo4 34 CrNiMo 6 40CrMoV4.6 21 CrMoV 5.7 42 CrMo 4	EN 10269 1.7218 EN 10269 1.6582 EN 10269 1.7711 EN 10269 1.7709 EN 10269 1.7225	+QT +QT +QT +QT +QT	BARS BARS BARS BARS BARS	100 100 100 100 100	150 120 160 160 65					AD 2000 W 7 AD 2000 W 7 AD 2000 W 7 AD 2000 W 7 AD 2000 W 7	a and 3-2 certificate *** a and 3-2 certificate *** a and 3-2 certificate *** a and 3-2 certificate *** a and 3-2 certificate ***
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 *** Over limits will need PMA										

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	10.07.20	3	TÜV Rheinland Industrie Service GmbH					
Location: E 39200 REINOSA (CANTABRIA)					Rev.: 7	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.												
7	X 6CrNiMoTi 17-12-2 X 2CrNiMo 17-12-2 X 5CrNi 18-10 X 6CrNiTi 18-10 X5CrNiMo 17-12-2 X2CrNi18-9	EN 10272 1.4571 EN 10272 1.4404 EN 10272 1.4301 EN 10272 1.4541 EN 10272 1.4401 EN 10272 1.4307	+AT +AT +AT +AT +AT +AT	BARS BARS BARS BARS BARS BARS	100	230					AD 2000 W 2 AD 2000 W 2 AD 2000 W 2 AD 2000 W 2 AD 2000 W 2 AD 2000 W 2	a a a a a a
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 REINOSA		E		10.07.20	
Location: E 39200 REINOSA (CANTABRIA)						Rev.: 7		Page No.: 4 of 5	
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions		Weight max		Technical Specifications
					Thick-ness mm		Ø mm		Requirements Technical Regulations
					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.									
8	B7 L7 B16	ASTM A 193 ASTM A 320 ASTM A 193	+QT +QT +QT	BARS BARS BARS	100 100 100	177,8 65 200			ASTM A 193 ASTM A 320 ASTM A 193
9	75 K + [AISI 4130]	API6A / ISO 10423 [ASTM A 29]	+QT	BARS	100	230			API6A / ISO 10423 [ASTM A 29]
10	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 10025.2
11	F5 F9 F11 F91	ASTM A 182/ ASME SA 182 K42544 ASTM A 182/ ASME SA 182 K90941 ASTM A 182/ ASME SA 182 K 11597 ASTM A 182/ ASME SA 182 K90901	+QT +QT +QT +QT	BARS BARS BARS BARS	100 100 100 100	230 230 230 230			ASTM A 182/ ASME SA 182 ASTM A 182/ ASME SA 182 ASTM A 182/ ASME SA 182 ASTM A 182/ ASME SA 182
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 *** Over limits will need PMA									



10

approval or to the requirements and limits



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		10.07.20			
Location: E 01013 VITORIA (ARABA)						Rev.: 7		Page No.: 1 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

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.

1	X 6CrNiMoTi 17-12-2 X 2CrNiMo 17-12-2 X 5CrNi 18-10 X 6CrNiTi 18-10 X5CrNiMo 17-12-2 X2CrNi18-9	EN 10272 1.4571 EN 10272 1.4404 EN 10272 1.4301 EN 10272 1.4541 EN 10272 1.4401 EN 10272 1.4307	+AT +AT +AT +AT +AT +AT	BARS BARS BARS BARS BARS BARS	-- -- -- -- -- --	26 26 26 26 26 26					EN 10272 EN 10272 EN 10272 EN 10272 EN 10272 EN 10272	
1	25 CrMo4 21 CrMoV 5.7 42 CrMo 4 34 CrNiMo 6 40CrMoV4.6	EN 10269 1.7218 EN 10269 1.7709 EN 10269 1.7225 EN 10269 1.6582 EN 10269 1.7711	+S, +QT +QT +QT +QT +QT	BARS BARS BARS BARS BARS	-- -- -- -- --	26 26 26 26 26					EN 10269 EN 10269 EN 10269 EN 10269 EN 10269	
3	P 250 GH 16 Mo 3 13 CrMo 44 10 CrMo 9-10	EN 10273 - 1.0460 EN 10273 1.5415 EN 10273 1.7335 EN 10273 1.7380	+N +QT +QT +QT	BARS BARS BARS BARS	-- -- -- --	26 26 26 26					EN 10273 EN 10273 EN 10273 EN 10273	

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 VITORIA				E	10.07.20	2	TÜV Rheinland Industrie Service GmbH	
Location: E 01013 VITORIA (ARABA)								Rev.: 7	of : 3			
Cur -	Materials-term Materials-No.	Material Specification	Deliv ery 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					
					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.

4	S 235J2 S-235 JR S 275 JR S 275J2 S 355 J2	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	+N +N +N +N +N	BARS BARS BARS BARS BARS	-- -- -- -- --	26 26 26 26 26					AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13 AD 2000 W13	a a a a a	
5	P 250 GH P 355 NH	EN 10273 - 1.0460 EN 10273 1.0565	+N +N	BARS BARS	-- --	26 26					AD 2000 W13 AD 2000 W13	a a	
6	25 CrMo4 21 CrMoV 5.7 42 CrMo 4 40CrMoV4.6	EN 10269 1.7218 EN 10269 1.7709 EN 10269 1.7225 EN 10269 1.7711	+QT +QT +QT +QT	BARS BARS BARS BARS	-- -- -- --	26 26 26 26					AD 2000 W 7 AD 2000 W 7 AD 2000 W 7 AD 2000 W 7	a a a a	and 3-2 certificate and 3-2 certificate and 3-2 certificate and 3-2 certificate

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	
Company Name: SIDENOR ACEROS ESPECIALES, S.L.U.				PLANTA VITORIA		E		10.07.20	
Location: E 01013 VITORIA (ARABA)						Rev.: 7		of :3	
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions		Weight ht max 1=t / 2=kg ↓ r	Technical Specifications Requirements Technical Regulations	
					Thick-ness mm	Ø mm			
					from	Up to	from	Up to	
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.									
7	34 CrNiMo 6 25 CrMo4 42 CrMo 4 41 Cr4 42CrMoS4	EN ISO 683-2 1.6582 EN ISO 683-2 1.7218 EN ISO 683-2 1.7225 EN ISO 683-2 1.7035 EN ISO 683-2 1.7227	+QT +QT +QT +QT +QT	BARS BARS BARS BARS BARS	-- -- -- -- --	26 26 26 26 26			EN ISO 683-2 EN ISO 683-2 EN ISO 683-2 EN ISO 683-2 EN ISO 683-2
8	X 20 Cr 13	EN 10088.3 1.4021	+QT	BARS	--	26			EN 10088.3
9	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
10	75 K + [AISI 4130]	API6A / ISO 10423 [ASTM A 29]	+QT	BARS	--	26			API6A / ISO 10423 [ASTM A 29]
11	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 10025.2
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							