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** **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 ACERO BARRAS EN MATERIAL DE ACERO AL CARBONO, ALEADO E INOXIDABLE HASTA 230mmØ, ver anexo del certificado
Planta de producción:	BASAURI – Headquarters + plant E-48970 BASAURI (BIZKAIA) REINOSA – plant E-39200 REINOSA (CANTABRIA) AZKOITIA – plant E-20720 AZKOITIA (GIPUZKOA) VITORIA- plant E- 01013 VITORIA (ARABA)
Válido hasta:	31 de enero de 2020

Colonia, 25 de junio de 2018

i.V. Dipl.-Ing. Oliver Theisen

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

E-008-D-Rev22

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TÜVRheinland®

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** Location: E 48970 BASAURI	**PLANTA BASAURI**	**E**	20.03.18 Rev.: 5	1 of : 4	TÜV Rheinland Industrie Service GmbH

Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm from	Dimensions Thick-ness mm Up to	Dimensions ∅ mm from	Dimensions ∅ mm Up to	Weight max 1=t / 2=kg ⇓	Weight max result	Technical Specifications Requirements Technical Regulations	Remarks
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	

Remarks

+AT = solution annealed
+AR = as rolled
+M = thermo mechanical treated
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+S = soft annealed
+SR = stress relieved
a = PMA for the use in pressure equipment in Directive 2014/68/EU neccessary

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Manufacturer	Work	Nationality	Date	Page No..	
Company Name: **SIDENOR ACEROS ESPECIALES, S.L.U** Location: E 48970 BASAURI	**PLANTA BASAURI**	**E**	20.03.18 Rev.: 5	2 of : 4	TÜV Rheinland Industrie Service GmbH

Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm from	Dimensions Thick-ness mm Up to	Dimensions ∅ mm from	Dimensions ∅ mm Up to	Weight max 1=t / 2=kg ⇓	Weight max 1=t / 2=kg result	Technical Specifications Requirements Technical Regulations	Remarks
1	2	3	4	5	6a	6b	7 a	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.											
	S 235J2	EN 10025.2-1.0117	N	BARS	25	100					AD 2000 W13	a
	S-235 JR	EN 10025.2 - 1.0038	N	BARS	25	100					AD 2000 W13	a
	S 275 JR	EN 10025.2 - 1.0044	N	BARS	25	100					AD 2000 W13	a
	S 275J2	EN 10025.2 - 1.0145	N	BARS	25	100					AD 2000 W13	a
	S 355 J2	EN 10.025.2 – 1.0577	N	BARS	25	100					AD 2000 W13	a
	P 250 GH	EN 10273 - 1.0460	N	BARS	25	100					AD 2000 W13	a
	16 Mo 3	DIN 17243 1.5415	QT	BARS	25	100					AD 2000 W13	a
	13 CrMo 44	DIN 17243 1.7335	QT	BARS	25	100					AD 2000 W13	a
	10 CrMo 9-10	DIN 17243 1.7380	QT	BARS	25	100					AD 2000 W13	a
	P 355 NH	EN 10273 1.0565	N	BARS	25	100					AD 2000 W13	a
2	21 CrMoV 5.7	EN 10269 1.7709	QT	BARS	25	100					AD 2000 W 7	a

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Manufacturer	Work	Nationality	Date	Page No..	
Company Name: **SIDENOR ACEROS ESPECIALES, S.L.U** Location: E 48970 BASAURI	**PLANTA BASAURI**	**E**	20.03.18 Rev.: 5	3 of : 4	TÜV Rheinland Industrie Service GmbH

Cur-	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm from	Dimensions Thick-ness mm Up to	Dimensions ∅ mm from	Dimensions ∅ mm Up to	Weight max 1=t / 2=kg ⇓	Weight max result	Technical Specifications Requirements Technical Regulations	Remarks
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	25 CrMo4	EN 10269.1 1.7218	QT	BARS	25	100					AD 2000 W 7	a
	42 CrMo 4	EN 10269.1 1.7225	QT	BARS	25	100					AD 2000 W 7	a
	X 6CrNiMoTi 17-12-2	EN 10272 1.4571	AT	BARS	25	100					AD 2000 W 2	a
	X 2CrNiMo 17-12-2	EN 10272 1.4404	AT	BARS	25	100					AD 2000 W 2	a
	X 5CrNi 18-10	EN 10272 1.4301	AT	BARS	25	100					AD 2000 W 2	a
	X 6CrNiTi 18-10	EN 10272 1.4541	AT	BARS	25	100					AD 2000 W 2	a
	X5CrNiMo 17-12-2	EN 10272 1.4401	AT	BARS	25	100					AD 2000 W 2	a
	X2CrNi18-9	EN 10272 1.4307	AT	BARS	25	100					AD 2000 W 2	a
	X 8CrNiS 18-9	EN 10272 1.4305	AT	BARS	25	100					AD 2000 W 2	a

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Manufacturer	Work	Nationality	Date	Page No..	
Company Name: **SIDENOR ACEROS ESPECIALES, S.L.U** Location: E 48970 BASAURI	**PLANTA BASAURI**	**E**	20.03.18 Rev.: 5	4 of : 4	TÜV Rheinland Industrie Service GmbH

Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm from	Dimensions Thick-ness mm Up to	Dimensions ∅ mm fr	Dimensions ∅ mm Up	Weight max 1=t / 2=kg ⇓	Weight max 1=t / 2=kg res	Technical Specifications Requirements Technical Regulations	Remarks
1	2	3	4	5	6a	6b	7	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	DIN17440 1.4021	+QT	BARS	25	100					DIN17440	3·2 Certificate
	1.7258	DIN 17240	+QT	BARS	25	100					DIN 17240	3·2 Certificate
	B7	ASTM A 193	+QT	BARS	25	100					ASTM A 193	**a**
	L7	ASTM A 320	+QT	BARS	25	100					ASTM A 320	**a**
	B16	ASTM A 193	+QT	BARS	25	100					ASTM A 193	**a**
	75 K + [AISI 4130]	**API6A / ISO 10423 [ASTM A 29]**	**+QT**	BARS	25	100	**API6A / ISO 10423 [ASTM A 29] a**					
	S 235J2	EN 10025.2-1.0117	N-AR	BARS	25	100					EN 10025.2	**a**
	S-235 JR	EN 10025.2 - 1.0038	N-AR	BARS	25	100					EN 10025.2	**a**
	S 275 JR	EN 10025.2 - 1.0044	N-AR	BARS	25	100					EN 10025.2	**a**
	S 275J2	EN 10025.2 - 1.0145	N-AR	BARS	25	100					EN 10025.2	**a**
	S 355 JR	EN 10025.2 – 1.0045	N-AR	BARS	25	100					EN 10025.2	**a**
	S 355 J2	EN 10.025.2 – 1.0577	N-AR	BARS	25	100					EN 10.025.2	**a**
	34 CrNiMo 6	EN 10083.3 1.6582	QT	BARS	25	100					EN 10083.3	**a**
	25 CrMo4	EN 10083.3 1.7218	QT	BARS	25	100					EN 10083.3	**a**
	42 CrMo 4	EN 10083.3 1.7225	QT	BARS	25	100					EN 10083.3	**a**
	34 CrNiMo 6	EN 10269 1.6582	QT	BARS	25	100					EN 10269	**a**
	40CrMoV4.6	EN 10269 1.7711	QT	BARS	25	100					EN 10269	**a**

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Annex to Certificate No. : 01 202 E/Q-02 6904 03

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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.** LocationE 39200 REINOSA (CANTABRIA)	**PLANTA REINOSA**	**E**	10.04.18 Rev.: 5	1 of : 5	TÜV Rheinland Industrie Service GmbH

Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm from	Dimensions Thick-ness mm Up to	Dimensions ∅ mm from	Dimensions ∅ mm Up to	Weight max 1=t / 2=kg ⇓	Weight max result	Technical Specifications Requirements Technical Regulations	Remarks
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											
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	P 250 GH	EN 10273 - 1.0460	+N	BARS	100	150					EN 10273	
	X 6CrNiMoTi 17-12-2	EN 10272 1.4571	+AT	BARS	100	230					EN 10272	
	X 2CrNiMo 17-12-2	EN 10272 .3 1.4404	+AT	BARS	100	230					EN 10272	
	X 5CrNi 18-10	EN 10272 1.4301	+AT	BARS	100	230					EN 10272	
	X 6CrNiTi 18-10	EN 10272 1.4541	+AT	BARS	100	230					EN 10272	
	X5CrNiMo 17-12-2	EN 10272 1.4401	+AT	BARS	100	230					EN 10272	
	X2CrNi18-9	EN 10272 1.4307	+AT	BARS	100	230					EN 10272	
	X 8CrNiS 18-9	EN 10272 1.4305	+AT	BARS	100	230					EN 10272	
	1.7218	EN 10269	+S, QT	BARS	100	150					EN 10269	

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Manufacturer	Work	Nationality	Date	Page No..	
Company Name: **SIDENOR ACEROS ESPECIALES, S.L.** LocationE 39200 REINOSA (CANTABRIA)	**PLANTA REINOSA**	**E**	10.04.18 Rev.: 5	2 of : 5	TÜV Rheinland Industrie Service GmbH

Cur-	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm from	Dimensions Thick-ness mm Up to	Dimensions ∅ mm from	Dimensions ∅ mm Up to	Weight max 1=t / 2=kg ⇓	Weight max 1=t / 2=kg result	Technical Specifications Requirements Technical Regulations	Remarks
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
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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	EN 10025.2-1.0117	+N	BARS	100	230					AD 2000 W13	
	S-235 JR	EN 10025.2 - 1.0038	+N	BARS	100	230					AD 2000 W13	
	S 275 JR	EN 10025.2 - 1.0044	+N	BARS	100	230					AD 2000 W13	
	S 275J2	EN 10025.2 - 1.0145	+N	BARS	100	230					AD 2000 W13	
	S 355 J2	EN 10.025.2 – 1.0577	+N	BARS	100	230					AD 2000 W13	
	P 250 GH	EN 10273 - 1.0460	+N	BARS	100	150					AD 2000 W13	
	16 Mo 3	DIN 17243 1.5415	+QT	BARS	100	230					AD 2000 W13	
	13 CrMo 44	DIN 17243 1.7335	+QT	BARS	100	230					AD 2000 W13	
	10 CrMo 9-10	DIN 17243 1.7380	+QT	BARS	100	230					AD 2000 W13	
	P 355 NH	EN 10273 1.0565	+N	BARS	100	150					AD 2000 W13	
2	21 CrMoV 5.7	EN 10269 1.7709	+QT	BARS	100	160					AD 2000 W 7	

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Manufacturer	Work	Nationality	Date	Page No..	
Company Name: **SIDENOR ACEROS ESPECIALES, S.L.**	**PLANTA REINOSA**	**E**	10.04.18	3	TÜV Rheinland Industrie Service GmbH
LocationE 39200 REINOSA (CANTABRIA)			Rev.: 5	of : 5	

Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm from	Dimensions Thick-ness mm Up to	Dimensions ∅ mm from	Dimensions ∅ mm Up to	Weight max 1=t / 2=kg ⇓	Weight max 1=t / 2=kg result	Technical Specifications Requirements Technical Regulations	Remarks
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
	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	
3	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	
	X 8CrNiS 18-9	EN 10272 1.4305	+AT	BARS	100	230					AD 2000 W 2	

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.

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Manufacturer	Work	Nationality	Date	Page No..	
Company Name: **SIDENOR ACEROS ESPECIALES, S.L.** LocationE 39200 REINOSA (CANTABRIA)	**PLANTA REINOSA**	**E**	10.04.18 Rev.: 5	4 of : 5	TÜV Rheinland Industrie Service GmbH

Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm from	Dimensions Thick-ness mm Up to	Dimensions ∅ mm from	Dimensions ∅ mm Up to	Weight max 1=t / 2=kg ⇓	Weight max 1=t / 2=kg result	Technical Specifications Requirements Technical Regulations	Remarks
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3. Materials according to international standards (e. g. ASTM, ASME, IBR etc.)												
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	X 20 Cr 13	DIN17440 1.4021	+QT	BARS	100	230					DIN17440	3·2 Certificate
	1.7258	DIN 17240	+QT	BARS	100	160					DIN 17240	3·2 Certificate
	B7	ASTM A 193	+QT	BARS	100	180					ASTM A 193	a
	L7	ASTM A 320	+QT	BARS	100	230					ASTM A 320	a
	B16	ASTM A 193	+QT	BARS	100	180					ASTM A 193	a
	75 K + [AISI 4130]	**API6A / ISO 10423 [ASTM A 29]**	**+QT**	BARS	100	230			**API6A / ISO 10423 [ASTM A 29]**		**a**	
	S 235J2	EN 10025.2-1.0117	+N+AR	BARS	100	230					EN 10025.2	a
	S-235 JR	EN 10025.2 - 1.0038	+N+AR	BARS	100	230					EN 10025.2	a
	S 275 JR	EN 10025.2 - 1.0044	+N+AR	BARS	100	230					EN 10025.2	a
	S 275J2	EN 10025.2 - 1.0145	+N+AR	BARS	100	230					EN 10025.2	a
	S 355 JR	EN 10025.2 – 1.0045	+N+AR	BARS	100	230					EN 10025.2	a
	S 355 J2	EN 10.025.2 – 1.0577	+N+AR	BARS	100	230					EN 10.025.2	a
	34 CrNiMo 6	EN 10083.3 1.6582	+QT	BARS	100	230					EN 10083.3	a
	25 CrMo4	EN 10083.3 1.7218	+QT	BARS	100	230					EN 10083.3	a
	42 CrMo 4	EN 10083.3 1.7225	+QT	BARS	100	320					EN 10083.3	a

Results

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Annex to Certificate No. : 01 202 E/Q-02 6904 03

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.** LocationE 39200 REINOSA (CANTABRIA)	**PLANTA REINOSA**	**E**	10.04.18 Rev.: 5	5 of : 5	TÜV Rheinland Industrie Service GmbH

Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm from	Dimensions Thick-ness mm Up to	Dimensions ∅ mm from	Dimensions ∅ mm Up to	Weight max 1=t / 2=kg ⇓	Weight max result	Technical Specifications Requirements Technical Regulations	Remarks
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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	EN 10269 1.6582	+QT	BARS	100	120					EN 10269	a
	40CrMoV4.6	EN 10269 1.7711	+QT	BARS	100	160					EN 10269	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 neccessary

TÜVRheinland®

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.** Location: : E 20720 AZKOITIA (GUPUZKOA)	**PLANTA AZKOITIA**	**E**	26.03.18 Rev.: 5	1 of : 4	TÜV Rheinland Industrie Service GmbH

Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm from	Dimensions Thick-ness mm Up to	Dimensions ∅ mm from	Dimensions ∅ mm Up to	Weight max 1=t / 2=kg ⇓	Weight max 1=t / 2=kg result	Technical Specifications Requirements Technical Regulations	Remarks
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	19	200					EN 10273	
	X 6CrNiMoTi 17-12-2	EN 10272 1.4571	+AT	BARS	19	200					EN 10272	
	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	

Remarks

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TÜVRheinland®

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.**	**PLANTA AZKOITIA**	**E**	26.03.18	2	TÜV Rheinland Industrie Service GmbH
Location: : E 20720 AZKOITIA (GUPUZKOA)			Rev.: 5	of : 4	

Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm from	Dimensions Thick-ness mm Up to	Dimensions ∅ mm from	Dimensions ∅ mm Up to	Weight max 1=t / 2=kg ⇓	Weight max result	Technical Specifications Requirements Technical Regulations	Remarks
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.												
1	S 235J2	EN 10025.2-1.0117	+N	BARS	19	200					AD 2000 W13	
	S-235 JR	EN 10025.2 - 1.0038	+N	BARS	19	200					AD 2000 W13	
	S 275 JR	EN 10025.2 - 1.0044	+N	BARS	19	200					AD 2000 W13	
	S 275J2	EN 10025.2 - 1.0145	+N	BARS	19	200					AD 2000 W13	
	S 355 J2	EN 10.025.2 – 1.0577	+N	BARS	19	200					AD 2000 W13	
	P 250 GH	EN 10273 - 1.0460	+N	BARS	19	200					AD 2000 W13	
	16 Mo 3	DIN 17243 1.5415	+QT	BARS	19	200					AD 2000 W13	
	13 CrMo 44	DIN 17243 1.7335	+QT	BARS	19	200					AD 2000 W13	
	10 CrMo 9-10	DIN 17243 1.7380	+QT	BARS	19	200					AD 2000 W13	
	P 355 NH	EN 10273 1.0565	+N	BARS	19	200					AD 2000 W13	
2	21 CrMoV 5.7	EN 10269 1.7709	+QT	BARS	19	200					AD 2000 W 7	

Remarks

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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.** Location: : E 20720 AZKOITIA (GUPUZKOA)	**PLANTA AZKOITIA**	**E**	26.03.18 Rev.: 5	3 of : 4	TÜV Rheinland Industrie Service GmbH

Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm from	Dimensions Thick-ness mm Up to	Dimensions ∅ mm from	Dimensions ∅ mm Up to	Weight max 1=t / 2=kg ⇓	Weight max result	Technical Specifications Requirements Technical Regulations	Remarks
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.											
	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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TÜVRheinland® 85824 Industrial Services

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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.**	**PLANTA AZKOITIA**	**E**	26.03.18	4	TÜV Rheinland Industrie Service GmbH
Location: : E 20720 AZKOITIA (GUPUZKOA)			Rev.: 5	of : 4	

Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm from	Dimensions Thick-ness mm Up to	Dimensions ∅ mm from	Dimensions ∅ mm Up to	Weight max 1=t / 2=kg ⇓	Weight max 1=t / 2=kg result	Technical Specifications Requirements Technical Regulations	Remarks
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	DIN17440 1.4021	+QT	BARS	19	200					DIN17440	3·2 Certificate
	1.7258	DIN 17240	+QT	BARS	19	200					DIN 17240	3·2 Certificate
	B7	ASTM A 193	+QT	BARS	19	200					ASTM A 193	a
	L7	ASTM A 320	+QT	BARS	19	200					ASTM A 320	a
	B16	ASTM A 193	+QT	BARS	19	200					ASTM A 193	a
	75 K+[AISI 4130]	**API6A / ISO 10423 [ASTM A 29]**	**+QT**	BARS	19	200	**API6A / ISO 10423 [ASTM A 29]**					a
	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
	S 355 J2	EN 10.025.2 – 1.0577	+N-AR	BARS	19	200					EN 10.025.2	a
	34 CrNiMo 6	EN 10083.3 1.6582	+QT	BARS	19	200					EN 10083.3	a
	25 CrMo4	EN 10083.3 1.7218	+QT	BARS	19	200					EN 10083.3	a
	42 CrMo 4	EN 10083.3 1.7225	+QT	BARS	19	200					EN 10083.3	a
	34 CrNiMo 6	EN 10269 1.6582	+QT	BARS	19	200					EN 10269	a
	40CrMoV4.6	EN 10269 1.7711	+QT	BARS	19	200					EN 10269	a

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Annex to Certificate No. : 01 202 E/Q-02 6904 02

TÜVRheinland®

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.**	**PLANTA VITORIA**	**E**	15.03.18	1	TÜV Rheinland Industrie Service GmbH
Location: E 01013 VITORIA (ARABA)			Rev.: 5	of : 3	

Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm from	Up to	∅ mm from	Up to	Weight max 1=t / 2=kg ⇓	result	Technical Specifications Requirements Technical Regulations	Remarks
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 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	

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TÜVRheinland®

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.**	**PLANTA VITORIA**	**E**	15.03.18	2	TÜV Rheinland Industrie Service GmbH
Location: E 01013 VITORIA (ARABA)			Rev.: 5	of : 3	

Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm from	Up to	∅ mm from	Up to	Weight max 1=t / 2=kg ⇓	result	Technical Specifications Requirements Technical Regulations	Remarks
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
2. Materials according to the AD 2000-Code												
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1	S 235J2	EN 10025.2-1.0117	+N	BARS	--	26					AD 2000 W13	
	S-235 JR	EN 10025.2 - 1.0038	+N	BARS	--	26					AD 2000 W13	
	S 275 JR	EN 10025.2 - 1.0044	+N	BARS	--	26					AD 2000 W13	
	S 275J2	EN 10025.2 - 1.0145	+N	BARS	--	26					AD 2000 W13	
	S 355 J2	EN 10.025.2 – 1.0577	+N	BARS	--	26					AD 2000 W13	
	P 250 GH	EN 10273 - 1.0460	+N	BARS	--	26					AD 2000 W13	
	16 Mo 3	DIN 17243 1.5415	+QT	BARS	--	26					AD 2000 W13	
	13 CrMo 44	DIN 17243 1.7335	+QT	BARS	--	26					AD 2000 W13	
	10 CrMo 9-10	DIN 17243 1.7380	+QT	BARS	--	26					AD 2000 W13	
	P 355 NH	EN 10273 1.0565	+N	BARS	--	26					AD 2000 W13	
2	21 CrMoV 5.7	EN 10269 1.7709	+QT	BARS	--	26					AD 2000 W 7	
	25 CrMo4	EN 10269.1 1.7218	+QT	BARS	--	26					AD 2000 W 7	
	42 CrMo 4	EN 10269.1 1.7225	+QT	BARS	--	26					AD 2000 W 7	

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Manufacturer	Work	Nationality	Date	Page No..	
Company Name: **SIDENOR ACEROS ESPECIALES, S.L.**	**PLANTA VITORIA**	**E**	15.03.18	3	TÜV Rheinland Industrie Service GmbH
Location: E 01013 VITORIA (ARABA)			Rev.: 5	of : 3	

Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm from	Up to	∅ mm from	Up to	Weight max 1=t / 2=kg ⇓	result	Technical Specifications Requirements Technical Regulations	Remarks
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	DIN17440 1.4021	+QT	BARS	--	26					DIN17440	3.2 Certificate
	1.7258	DIN 17240	+QT	BARS	--	26					DIN 17240	3.2 Certificate
	B7	ASTM A 193	+QT	BARS	--	26					ASTM A 193	g
	L7	ASTM A 320	+QT	BARS	--	26					ASTM A 320	g
	B16	ASTM A 193	+QT	BARS	--	26					ASTM A 193	g
	75 K + [AISI 4130]	**API6A / ISO 10423 [ASTM A 29]**	**+QT**	BARS	--	26	**API6A / ISO 10423 [ASTM A 29]**					g
	S 235J2	EN 10025.2-1.0117	N-AR	BARS	--	26					EN 10025.2	g
	S-235 JR	EN 10025.2 - 1.0038	N-AR	BARS	--	26					EN 10025.2	g
	S 275 JR	EN 10025.2 - 1.0044	N-AR	BARS	--	26					EN 10025.2	g
	S 275J2	EN 10025.2 - 1.0145	N-AR	BARS	--	26					EN 10025.2	g
	S 355 JR	EN 10025.2 – 1.0045	N-AR	BARS	--	26					EN 10025.2	g
	S 355 J2	EN 10.025.2 – 1.0577	N-AR	BARS	--	26					EN 10.025.2	g
	34 CrNiMo 6	EN 10083.3 1.6582	QT	BARS	--	26					EN 10083.3	g
	25 CrMo4	EN 10083.3 1.7218	QT	BARS	--	26					EN 10083.3	g
	42 CrMo 4	EN 10083.3 1.7225	QT	BARS	--	26					EN 10083.3	g
	34 CrNiMo 6	EN 10269 1.6582	QT	BARS	--	26					EN 10269	g
	40CrMoV4.6	EN 10269 1.7711	QT	BARS	--	26					EN 10269	g

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g = PMA fort he use in pressure equipment in Directive 2014/68/EU neccessary