

Zertifikat

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

Zertifikatsnummer: 01 202 CHN/Q-04 0135.01

Name und Anschrift des
Zertifikatsinhaber:

**Shanxi Taigang Stainless Steel Co., Ltd.
No.2 Jiancaoping Street,
Taiyuan City,
030003 Shanxi
P.R. China**

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

Prüfgrundlage:

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

Prüfbericht Nr.:

01 202 CHN/Q-04 0135

Geltungsbereich:

**Herstellung von Blechen und Baendern aus nichtrostendem Stahl
und Kohlenstoffstahl; Herstellung von Stahlbarren, siehe Anlage
zum Zertifikat: 01 202 CHN/Q-04 0135, Revision 7 vom Dec 21, 2023**

Fertigungsstätte:

siehe Anlage 2

Gültigkeit:

Dieses Zertifikat ist gültig bis 27.05.2025.

Köln, 17.01.2024

Ines Krüger-Führ



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

E-108a

Certificate

Quality management system for Manufacturer of Materials acc. to Directive 2014/68/EU

Certificate no.: 01 202 CHN/Q-04 0135.01

Name and address of the
certificate holder: **Shanxi Taigang Stainless Steel Co., Ltd.**
No.2 Jiancaoping Street,
Taiyuan City,
030003 Shanxi
P.R. China

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 CHN/Q-04 0135

Scope: **Manufacturing of Stainless steel and Carbon steel plates, sheets
and strips; Manufacturing of steel bars, see annex to certificate:
01 202 CHN/Q-04 0135, revision 7 from Dec 21, 2023**

Manufacturing plant: see annex 2

Validity: **This certificate is valid to 2025-05-27.**

Cologne, 2024-01-17

Ines Krüger-Führ



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

E-108a

Anlage 2

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

Zertifikatsnummer: 01 202 CHN/Q-04 0135.01

Name und Anschrift des
Zertifikatsinhaber:

Shanxi Taigang Stainless Steel Co., Ltd.
No.2 Jiancaoping Street,
Taiyuan City,
030003 Shanxi
P.R. China

Fertigungsstätten:

Shanxi Taigang Stainless Steel Co., Ltd.
No.2 Jiancaoping Street,
Taiyuan City,
030003 Shanxi
P.R. China

Linfen Branch of Shanxi TISCO
Stainless Steel CO.,Ltd
No.3 Qiaodong Street,
Linfen City,
041000 Shanxi
P.R. China

Köln,
17.01.2024

Ines Krüger-Führ



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

E-999

Annex 2

Quality management system for Manufacturer of Materials acc. to Directive 2014/68/EU

Certificate no.: 01 202 CHN/Q-04 0135.01

Name and address of the
certificate holder: **Shanxi Taigang Stainless Steel Co., Ltd.**
No.2 Jiancaoping Street,
Taiyuan City,
030003 Shanxi
P.R. China

Manufacturing plants: **Shanxi Taigang Stainless Steel Co., Ltd.**
No.2 Jiancaoping Street,
Taiyuan City,
030003 Shanxi
P.R. China

Linfen Branch of Shanxi TISCO
Stainless Steel CO.,Ltd
No.3 Qiaodong Street,
Linfen City,
041000 Shanxi
P.R. China

Cologne,
2024-01-17

Ines Krüger-Führ

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



E-999

Scope:		☒ Directive 2014/68/EU Annex I point 4.3				☐ EN 764-4				☐ AD 2000-Merkblatt W 0			
Certificate holder (Manufacturer of materials)				Manufacturing plant				Nationality		Page No.:		1	
Company Name:		Shanxi Taigang Stainless Steel Co., Ltd.		Plant 1: No.2 Jiancaoping Street, Taiyuan City, Shanxi Province, 030003, P.R. China				China		of :		10	
Location:		No.2 Jiancaoping Street, Taiyuan City, Shanxi Province, 030003, P.R. China		Plant 2: No.3 Qiaodong Street, Linfen City, Shanxi Province, 041000, P. R. China						Date:		Dec 21, 2023	
										Rev.:		7	
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max 1=t / 2=kg ↓ result	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.

1	1.4362, 1.4401, 1.4404, 1.4462, 1.4571, 1.4438, 1.4541, 1.4550, 1.4311, 1.4948	EN 10028-7	+AT	Plates, sheets, and Strips: Hot rolled Cold rolled	3 0.3	100 8	/	/	/	/	EN 10028-7	Product shall be according to the requirement of the order If the thickness exceed the scope of EN 10028-7 for Cur. 1 and 2
2	1.4301, 1.4306, 1.4307	EN10028-7	+AT	Plates, sheets, and Strips: Hot rolled Cold rolled	2 0.3	100 8	/	/	/	/	EN 10028-7	

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	+A	= annealed		
	+N	= normalized or normalizing formed	+SR	= stress relieved		
			+H	= solution annealed and aging treatment		

Scope:		☒ Directive 2014/68/EU Annex I point 4.3				☐ EN 764-4				☐ AD 2000-Merkblatt W 0			
Certificate holder (Manufacturer of materials)				Manufacturing plant				Nationality		Page No.:		2	
Company Name:		Shanxi Taigang Stainless Steel Co., Ltd.		Shanxi Taigang Stainless Steel Precision Strip Co., Ltd.				China		of :		10	
Location:		No.2 Jiancaoping Street, Taiyuan City, Shanxi Province, 030003, P.R. China		No.2, Central North Street, Shanxi Demonstration Zone, Taiyuan City, Shanxi Province ,030006, P.R. China						Date:		Dec 21, 2023	
										Rev.:		7	
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm Ø mm				Weight max 1=t / 2=kg	Technical Specifications Requirements Technical Regulations		Remarks	
					from	Up to	from	Up to	↓	result			
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10	
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3	1.4301,1.4307,1.4401, 1.4404	EN10028-7	+AT/+AR	Cold rolled strip	0.05	0.8	/	/	/	/	EN 10028-7		

Remarks	+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed	+NT = normalized and tempered +QT = quenched and tempered +A = annealed +SR = stress relieved +H = solution annealed and aging treatment	a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary
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Scope:		☐ Directive 2014/68/EU Annex I point 4.3				☐ EN 764-4				☒ AD 2000-Merkblatt W 0				
Certificate holder (Manufacturer of materials)				Manufacturing plant				Nationality		Page No.:		3		
Company Name:		Shanxi Taigang Stainless Steel Co., Ltd.		Plant 1: No.2 Jiancaoping Street, Taiyuan City, Shanxi Province, 030003, P.R. China				China		of :		10		TÜV Rheinland Industrie Service GmbH
Location:		No.2 Jiancaoping Street, Taiyuan City, Shanxi Province, 030003, P.R. China		Plant 2: No.3 Qiaodong Street, Linfen City, Shanxi Province, 041000, P. R. China						Date:		Dec 21, 2023		
										Rev.:		7		
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	from	Up to	↓	result				
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	1.4301, 1.4306, 1.4307, 1.4401, 1.4404, 1.4571, 1.4438, 1.4541, 1.4550, 1.4311	EN10028-7	+AT	Plates, sheets, and Strips: Hot rolled Cold rolled	3 0.3	100 8	/	/	/	/	AD 2000-W2/W10	Product shall be according to the requirement of the order If the thickness exceed the scope of EN 10028-7 for Cur. 1, 2 and 3
2	1.4948	EN10028-7	+AT	Plates, sheets, and Strips: Hot rolled Cold rolled	3 0.3	100 8	/	/	/	/	AD 2000-W2	
3	1.4301, 1.4306, 1.4307	EN10028-7	+AT	Plates, sheets, and Strips: Hot rolled Cold rolled	2 0.3	100 8	/	/	/	/	AD 2000-W2/W10	

Remarks	+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed	+NT = normalized and tempered +QT = quenched and tempered +A = annealed +SR = stress relieved +H = solution annealed and aging treatment	a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary
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Scope:		☐ Directive 2014/68/EU Annex I point 4.3				☐ EN 764-4				☒ AD 2000-Merkblatt W 0			
Certificate holder (Manufacturer of materials)				Manufacturing plant				Nationality		Page No.:		4	
Company Name:		Shanxi Taigang Stainless Steel Co., Ltd.		Shanxi Taigang Stainless Steel Precision Strip Co., Ltd.				China		of :		10	
Location:		No.2 Jiancaoping Street, Taiyuan City, Shanxi Province, 030003, P.R. China		No.2, Central North Street, Shanxi Demonstration Zone, Taiyuan City, Shanxi Province ,030006, P.R. China						Date:		Dec 21, 2023	
										Rev.:		7	
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm Ø mm				Weight max 1=t / 2=kg		Technical Specifications Requirements Technical Regulations		Remarks
					from Up to		from Up to		↓	result			
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10	

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4	1.4301,1.4307,1.4401, 1.4404	EN10028-7	+AT/+AR	Cold rolled strip	0.05	0.8	/	/	/	/	AD 2000- W2/W10	

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

Scope:		☒ Directive 2014/68/EU Annex I point 4.3				☐ EN 764-4				☐ AD 2000-Merkblatt W 0			
Certificate holder (Manufacturer of materials)				Manufacturing plant				Nationality		Page No.:		5	
Company Name:		Shanxi Taigang Stainless Steel Co., Ltd.		Plant 1: No.2 Jiancaoping Street, Taiyuan City, Shanxi Province, 030003, P.R. China				China		of :		10	
Location:		No.2 Jiancaoping Street, Taiyuan City, Shanxi Province, 030003, P.R. China		Plant 2: No.3 Qiaodong Street, Linfen City, Shanxi Province, 041000, P. R. China						Date:		Dec 21, 2023	
										Rev.:		7	
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max 1=t / 2=kg ↓ result	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 other standards

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	304L, 305, 310S, 316, 316L, 316Ti, 317, 317L, 321, 347, 304H	ASME SA240 / ASTM A240	+AT	Plates, sheets, and Strips Hot rolled Cold rolled	3 0.3	100 8	/	/	/	/	ASME SA240 / ASTM A240	a
2	405, 430, 409, 410S, 410	ASME SA240 / ASTM A240	+S	Plates, sheets, and Strips Hot rolled Cold rolled	3 0.3	100 8	/	/	/	/	ASME SA240 / ASTM A240	a
3	301, 302, 304	ASME SA240 / ASTM A240	+AT	Plates, sheets, and Strips Hot rolled Cold rolled	2 0.3	100 8	/	/	/	/	ASME SA240 / ASTM A240	a

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	+AR = as rolled	+QT = quenched and tempered	
	+M = thermo mechanical treated	+A = annealed	
	+N = normalized or normalizing formed	+SR = stress relieved	
		+H = solution annealed and aging treatment	

Scope:		☒ Directive 2014/68/EU Annex I point 4.3				☐ EN 764-4				☐ AD 2000-Merkblatt W 0				
Certificate holder (Manufacturer of materials)					Manufacturing plant				Nationality		Page No.:		6	
Company Name:		Shanxi Taigang Stainless Steel Co., Ltd.			Plant 1: No.2 Jiancaoping Street, Taiyuan City, Shanxi Province, 030003, P.R. China				China		of :		10	
Location:		No.2 Jiancaoping Street, Taiyuan City, Shanxi Province, 030003, P.R. China			Plant 2: No.3 Qiaodong Street, Linfen City, Shanxi Province, 041000, P. R. China						Date:		Dec 21, 2023	
											Rev.:		7	
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max 1=t / 2=kg ↓ result	Technical Specifications Requirements Technical Regulations	Remarks 			
					Thick-ness mm		Ø mm							
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10		

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4	Gr.60, Gr.65, Gr.70	ASME SA516 / ASTM A516	+N	Hot rolled Plates	6	40	/	/	/	/	ASME SA516 / ASTM A516	a
5	Gr.11, Gr.12, Gr.22, Gr.91	ASME SA387 / ASTM A387	+N	Hot rolled Plates	6	40	/	/	/	/	ASME SA387 / ASTM A387	a
6	S32101, S31803, S32205, S32304, S32750	ASME SA240 / ASTM A240	+AT	Hot rolled Plates	6	65	/	/	/	/	ASME SA240 / ASTM A240	a
7	S41500	ASME SA240 / ASTM A240	+AT	Hot rolled Plates	10	120	/	/	/	/	ASME SA240 / ASTM A240	a

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	+M = thermo mechanical treated	+A =	annealed		
	+N = normalized or normalizing formed	+SR =	stress relieved		
		+H =	solution annealed and aging treatment		

Scope:		☒ Directive 2014/68/EU Annex I point 4.3				☐ EN 764-4				☐ AD 2000-Merkblatt W 0			
Certificate holder (Manufacturer of materials)				Manufacturing plant				Nationality		Page No.:		7	
Company Name:		Shanxi Taigang Stainless Steel Co., Ltd.		Plant 1: No.2 Jiancaoping Street, Taiyuan City, Shanxi Province, 030003, P.R. China				China		of :		10	
Location:		No.2 Jiancaoping Street, Taiyuan City, Shanxi Province, 030003, P.R. China		Plant 2: No.3 Qiaodong Street, Linfen City, Shanxi Province, 041000, P. R. China						Date:		Dec 21, 2023	
										Rev.:		7	
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm Ø mm				Weight max 1=t / 2=kg	Technical Specifications Requirements Technical Regulations		Remarks	
					from	Up to	from	Up to	↓	result			
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10	

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8	Gr.G	ASME SA414 / ASTM A414	+AR	Sheets, strips Hot rolled	2	6	/	/	/	/	ASME SA414 / ASTM A414	a
9	SUS301, SUS302, SUS304, SUS304L, SUS305, SUS310S, SUS316, SUS316L, SUS316Ti, SUS317, SUS317L, SUS321, SUS347	JIS G4304 JIS G4305	+AT	Plates, sheets, and Strips: Hot rolled Cold rolled	3 0.3	100 8	/	/	/	/	JIS G4304 JIS G4305	a
10	SUS403, SUS405, SUS430, SUS410S, SUS410, SUS420J1	JIS G4304 JIS G4305	+S	Plates, sheets, and Strips: Hot rolled Cold rolled	3 0.3	100 8	/	/	/	/	JIS G4304 JIS G4305	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 +A = annealed +SR = stress relieved +H = solution annealed and aging treatment	a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary
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Scope:		☒ Directive 2014/68/EU Annex I point 4.3				☐ EN 764-4				☐ AD 2000-Merkblatt W 0			
Certificate holder (Manufacturer of materials)				Manufacturing plant				Nationality		Page No.:		8	
Company Name:		Shanxi Taigang Stainless Steel Co., Ltd.		Plant 1: No.2 Jiancaoping Street, Taiyuan City, Shanxi Province, 030003, P.R. China				China		of :		10	
Location:		No.2 Jiancaoping Street, Taiyuan City, Shanxi Province, 030003, P.R. China		Plant 2: No.3 Qiaodong Street, Linfen City, Shanxi Province, 041000, P. R. China						Date:		Dec 21, 2023	
										Rev.:		7	
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max 1=t / 2=kg ↓ result	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	

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11	SUH409L	JIS G4312	+AT	Plates, sheets, and Strips: Hot rolled Cold rolled	3 0.3	10 8	/	/	/	/	JIS G4312	a
12	4130,4140	ASTM A322	+AR	Hot-forged bar: Round Squares	120X120	160X160	100	250	/	/	ASTM A322	a If dimension exceed the scope, pls. refer to item 1.2 acc. to ASTM A29
13	4130,4140	ASTM A322	+AR	Hot-rolled bar: Squares Round- Cornered Squares	120X120 120X120	160X160 200X200	/	/	/	/	ASTM A322	a If dimension exceed the scope, pls. refer to item 1.2 acc. to ASTM A29

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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Scope:		☒ Directive 2014/68/EU Annex I point 4.3				☐ EN 764-4				☐ AD 2000-Merkblatt W 0			
Certificate holder (Manufacturer of materials)				Manufacturing plant				Nationality		Page No.:		9	
Company Name:		Shanxi Taigang Stainless Steel Co., Ltd.		Plant 1: No.2 Jiancaoping Street, Taiyuan City, Shanxi Province, 030003, P.R. China				China		of :		10	
Location:		No.2 Jiancaoping Street, Taiyuan City, Shanxi Province, 030003, P.R. China		Plant 2: No.3 Qiaodong Street, Linfen City, Shanxi Province, 041000, P. R. China						Date:		Dec 21, 2023	
										Rev.:		7	
Cur	Materials-term	Material	Delivery	Article	Dimensions				Weight	Technical		Remarks	
-	Materials-No.	Specification	Cond.	Type of Product					max	Specifications			
					Thick-ness mm				1=t / 2=kg	Requirements			
									↓	Technical			
									res	Regulations			
									ult				
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10	

3. Materials according to other standards

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.

14	304,316L	ASTM A276	+AT	Hot-forged bar: Round Squares	120X120	360X360	100	360	/	/	ASTM A276	a
15	304,316L	ASTM A276	+AT	Hot-rolled bar: Squares	150X150	550X550	/	/	/	/	ASTM A276	a
16	410	ASTM A276	+S	Hot-forged bar: Round Squares Rectangular	120X120 (100~350)X (100~350)	360X360 (100~350)X (100~350)	100	360	/	/	ASTM A276	a

Remarks	+AT	= solution annealed	+NT	= normalized and tempered	a	= PMA for the use in pressure equipment
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	+M	= thermo mechanical treated	+A	= annealed		
	+N	= normalized or normalizing formed	+SR	= stress relieved		
			+H	= solution annealed and aging treatment		

Scope:		☒ Directive 2014/68/EU Annex I point 4.3				☐ EN 764-4				☐ AD 2000-Merkblatt W 0			
Certificate holder (Manufacturer of materials)				Manufacturing plant				Nationality		Page No.:		10	
Company Name:		Shanxi Taigang Stainless Steel Co., Ltd.		Plant 1: No.2 Jiancaoping Street, Taiyuan City, Shanxi Province, 030003, P.R. China				China		of :		10	
Location:		No.2 Jiancaoping Street, Taiyuan City, Shanxi Province, 030003, P.R. China		Plant 2: No.3 Qiaodong Street, Linfen City, Shanxi Province, 041000, P. R. China						Date:		Dec 21, 2023	
										Rev.:		7	
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 other standards

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.

17	410	ASTM A276	+S	Hot-forged bar: Squares	150X150	550X550	/	/	/	/	ASTM A276	a
18	304N	ASME SA240 / ASTM A240	+AT	Hot rolled Plates	14	21.5	/	/	/	/	ASME SA240 / ASTM A240	a
19	SUS420J2	JIS G4304	+S	Hot rolled Plates	10	45	/	/	/	/	JIS G4304	a
20	347H	ASME SA240 / ASTM A240	+AT	Hot rolled Plates	6	46	/	/	/	/	ASME SA240 / ASTM A240	a

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