

Annex to Certificate No.: 01 202 CHI/Q-04 0135

Details of the Validity of the Approval as Manufacturer of Materials in accordance to DGR 97/23/EC and AD2000-W0/TRD 100 respectively

Manufacturer				Work				Nationality		Date		Page No...		TUV-Name / Stamp	
Company Name: Shanxi Taigang Stainless Steel Co., Ltd.				Plant 1: No 2 Jiancaoping, Taiyuan, Shanxi 030003, P.R. China				CHN		Jan 13, 2015		1		TUV Rheinland Industrie Service GmbH	
Location: No 2 Jiancaoping, Taiyuan, Shanxi 030003, P.R. China				Plant 2: No 3 Qiaodong Street, Linfen, Shanxi 041000, P.R. China						Rev. 7		of: 3			
Cur-	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max 1=t / 2=kg	Technical Specifications Requirements Technical Regulations	Remarks				
					Thickness mm	mm	mm	mm							
					from	Up to	from	Up to							
1	2	3	4	5	6a	6b	7a	7b	8a	8b	10				
The use of the materials according to DGR 97/23/EC 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.															
01	1 4301, 1 4306, 1 4307, 1 4362, 1 4401, 1 4404, 1 4462, 1 4571, 1 4438, 1 4541, 1 4550	EN 10028-7	A	Plates, sheets, and Strips Hot rolled Cold rolled	3 0.3	100 8			d	d	AD 2000-W2W10 PED/AD2000: all material grade.				
02	301, 302, 304, 304L, 305, 310S, 316, 316L, 316Ti, 317, 317L, 321, 347	ASME SA240 / ASTM A240	A	Plates, sheets, and Strips Hot rolled Cold rolled	3 0.3	100 8			d	d	ASME SA240 / ASTM A240				
03	405, 430, 409, 410S, 410	ASME SA240 / ASTM A240	L	Plates, sheets, and Strips Hot rolled Cold rolled	3 0.3	100 8			d	d	ASME SA240 / ASTM A240 PED: PMA by Pressure equipment manufacturer (cat. I/II), by NoBo (cat. III/IV) required.				
04	SUS301, SUS302, SUS304, SUS304L, SUS305, SUS310S, SUS316, SUS316L, SUS316Ti, SUS317, SUS317L, SUS321, SUS347	JIS G4304 JIS G4305	A	Plates, sheets, and Strips Hot rolled Cold rolled	3 0.3	100 8			d	d	JIS G4304 JIS G4305				
Remarks * A = solution treatment and quenched L = solution treatment N = normalized S = stress relieved annealed TM = thermos mechanical treatment U = not treated V = quenched and tempered CR = temperature controlled rolled G = soft annealed a = material b = delivery condition c = article d = dimensions in tech. regulations e = weight f = No. of tech. regulation															

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Location: No 2 Jiancaoping, Taiyuan, Shanxi 030003, P.R.China		Plant 2: No.3 Qiaodong Street, Linfen, Shanxi 041000, P.R. China			Rev. 7	3 of						
Cur-	Materials-term Materials-No.	Material Specification	Delivery Cond *	Article Type of Product	Dimensions			Weight max 1=t / 2=kg	Technical Specifications Requirements Technical Regulations	Remarks		
					Thickness mm	Ø mm	Weight					
1	2	3	4	5	6a	6b	7a	7b	8a	8b	10	
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05	SUS403, SUS405, SUS430, SUS410S, SUS410, SUS420J1	JIS G4304 JIS G4305	L	Plates, sheets, and Strips Hot rolled Cold rolled	3 0.3	100 8			d	d	JIS G4304 JIS G4305	PED: PMA by Pressure equipment manufacturer (cat. III), by NoBo (cat. III/IV) required.
06	SUH409L	JIS G4312	A	Plates, sheets, and Strips Hot rolled Cold rolled	3 0.3	10 8			d	d	JIS G4312	
07	SA516M Gr.60 SA516M Gr.65 SA516M Gr.70	ASME SA516 / ASTM A516	N	Hot rolled Plates	6	40			d	d	ASME SA516 / ASTM A516	
Remarks		* A = solution treatment and quenched L = solution treatment N = normalized S = stress relieved annealed TM = thermos mechanical treatment U = not treated		V = quenched and tempered CR = temperature controlled rolled G = soft annealed		a = Material b = delivery condition c = Article d = dimensions in tech. regulations e = Weight f = No. of tech. regulation						

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Cur-	Materials-term Materials-No	Material Specification	Delivery Cond *	Article Type of Product	Dimensions			Weight max 1=t / 2=kg	Technical Specifications Requirements Technical Regulations	Remarks
					Thickness mm	Ø mm	Weight max			
1	2	3	4	5	6a	6b	7a	7b	8a	8b
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08	SA387 Gr.11 SA387 Gr.12 SA387 Gr.22 SA387 Gr.91	ASME SA387 / ASTM A387	U	Hot rolled Plates	6	40			d	d
09	S32101, S31803, S32205	ASME SA240 / ASTM A240	A	Plates, sheets, and Strips Hot rolled	6	65			d	d
10	S41500	ASME SA240 / ASTM A240	A	Hot rolled Plates	10	120			d	d
11	A414 Gr. G	ASME SA414 / ASTM A414	U	sheets, strips Hot rolled	2	6			d	d
Remarks		PED: PMA by Pressure equipment manufacturer (cat. III), by NoBa (cat. III/IV) required.								
		* A = solution treatment and quenched L = solution treatment N = normalized S = stress relieved annealed TM = thermos mechanical treatment U = not treated V = quenched and tempered CR = temperature controlled rolled NT = normalized and tempered G = soft annealed a = Material b = delivery condition c = Article d = dimensions in tech. regulations e = Weight f = No. of tech. regulation								

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Cur.	Materials-term Materials-No	Material/ Specification	Deliv ery Cond *	Article Type of Product	Dimensions			Weight max	Technical Specifications	Remarks	
					Section size mm	Ø mm	1=t / 2=kg				
					from	Up to	Up to	Result			
					6a	6b	7a	8a			
1	2	3	4	5				8b	9	10	
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12	4130,4140	ASTM A322	G	Hot-forged bar Round Squares	120X120	160X160	100	250	d	ASTM A29/ASTM A322	PED: PMA by Pressure equipment manufacturer (cat. I/II), by NoBo (cat. III/IV) required.
13	4130,4140	ASTM A322	G	Hot-rolled bar Squares Round-Cornered Squares	120X120 120X120	160X160 200X200		d	ASTM A29/ASTM A322	If dimension exceed the scope, pls. refer to item 1.2 acc. to ASTM A29	
13	304,316L	ASTM A276	A	Hot-forged bar Round Squares	120X120	360X360	100	360	d	ASTM A276/ASTM A484	PED: PMA by Pressure equipment manufacturer (cat. I/II), by NoBo (cat. III/IV) required.
14	304,316L	ASTM A276	A	Hot-rolled bar Squares	150X150	550X550		d	ASTM A276/ASTM A484		
Remarks		* A = solution treatment and quenched L = solution treatment N = normalized S = stress relieved annealed TM = thermos mechanical treatment U = not treated		V = quenched and tempered CR = temperature controlled rolled G = annealed		a = Material b = delivery condition c = Article d = dimensions in tech. regulations e = Weight f = No. of tech. regulation					

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Cur-	Materials-term Materials-No	Material Specification	Deliv ery Cond	Article Type of Product	Dimensions		Weight max	Technical Specifications	Remarks
					Section size mm	Ø mm	1=t / 2=kg	Requirements Technical Regulations	
					from	Up to	Res ult		
					6a	6b	7a	7b	8a
					5				10
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15	410	ASTM A276	G	Hot-forged bar Round Squares rectangular	120X120 (100~350)X (100~350)	360X360 (100~350)X (100~350)	100	360	d d d
16	410	ASTM A276	G	Hot-rolled bar Squares	150X150	550X550			d
Remarks * A = solution treatment and quenched L = solution treatment N = normalized S = stress relieved annealed TM = thermos mechanical treatment U = not treated V = quenched and tempered CR = temperature controlled rolled G = annealed a = Material b = delivery condition c = Article d = dimensions in tech. regulations e = Weight f = No. of tech. regulation									

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