

# Certificate

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

Certificate no.: 01 202 ROK/Q-02 0009.00

Name and address of the certificate holder: **SeAH Changwon Integrated Special Steel Corporation**  
**147, Jeokhyeon-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, 51708 Republic of Korea**

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 ROK/Q-02 0009

Scope: **Manufacturing of Steel and Stainless steel rolled bars, rods / forged products and Seamless Stainless steel tubes, see annex to certificate: 01 202 ROK/Q-02 0009, revision 24 from 09.06.2023**

Manufacturing plant: see certificate holder

Validity: **This certificate is valid to 2026-06-30.**

Cologne, 2023-07-21

*Ines Krüger-Führ*  
Ines Krüger-Führ



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

E-108a

Scope:		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I point 4.3				<input checked="" type="checkbox"/> EN 764-4				<input checked="" type="checkbox"/> AD 2000-Merkblatt W 0					
Certificate holder (Manufacturer of materials)					Manufacturing plant				Nationality		Page No.:	1			
Company Name:		SeAH Changwon Integrated Special Steel Corporation				147, Jeokhyeon-ro, Seongsan-gu, Changwon-si,				Republic of Korea		of :	4	TÜV Rheinland Industrie Service GmbH	
Location:		147, Jeokhyeon-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, 51708, Republic of Korea				Changwon-si,						Date:	09.06.2023		
												Rev.:	24		
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						
					fro m	Up to	from	Up to	↓	res ult					
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10			
<b>1. Materials according to harmonized European standards (hEN) and European Approval for Materials (EAM) acc. Directive 2014/68/EU</b>															
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	1.4301, 1.4306, 1.4401, 1.4404 1.4435, 1.4436, 1.4541, 1.4571	EN 10272	+AT	Rolled Bar	-	-	5.5	205	1	2	EN 10272	*3.2 certificate is required because of insufficient material data.			
2	1.4301, 1.4306, 1.4401, 1.4404 1.4435, 1.4436, 1.4541, 1.4571	EN 10222-5	+AT	Forged Product	10	700	205	550	1	12	EN 10222-5				
*3	1.5415, 1.7383, 1.4901, 1.4903	EN 10222-2	+NT/+QT	Forged Product	10	400	70	600	1	13	EN 10222-2				
4	1.4301, 1.4306, 1.4401, 1.4404, 1.4571, 1.4539, 1.4410, 1.4462, 1.4501, 1.4912, 1.4307, 1.4541, 1.4907, 1.4435	EN 10216-5	+AT	Seamless Pipe	1.0	23.01	10	273.1	2	800	EN 10216-5				
5	1.4301, 1.4307, 1.4401, 1.4404 1.4567	EN 10269	+AT	Wire Rod	-	-	5.5	34	1	2	EN 10269				
*6	1.7383	EN 10273	+NT	Rolled Bar	-	-	28	205	1	2	EN 10273				



<b>Remarks</b>	+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:		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I point 4.3				<input checked="" type="checkbox"/> EN 764-4				<input checked="" type="checkbox"/> AD 2000-Merkblatt W 0			
Certificate holder (Manufacturer of materials)				Manufacturing plant				Nationality		Page No.:		2	
Company Name:		SeAH Changwon Integrated Special Steel Corporation				147, Jeokhyeon-ro, Seongsan-gu, Changwon-si,				Republic of Korea		TÜV Rheinland	
Location:		147, Jeokhyeon-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, 51708, Republic of Korea				147, Jeokhyeon-ro, Seongsan-gu, Changwon-si,				Date:		09.06.2023	
										Rev.:		24	
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max		Technical Specifications Requirements		Remarks
					Thick- ness mm		Ø mm		1=t / 2=kg		Technical Regulations		
					fro m	Up to	fro m	Up to	↓	res ult			
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10	
<b>2. Materials according to the AD 2000-Code</b>													
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, 1.4401, 1.4404 1.4435, 1.4436, 1.4541, 1.4571	DIN EN 10272	+AT	Rolled Bar	-	-	5.5	205	1	2	AD2000-W2 & W10	It shall be made a contract for the responsibility of the UT for OD.350.001 ~435mm of the forged bar and for OD.91~120mm of the seamless pipes. The thickness more than DIN EN10222-5 can be delivered with PMA. *The dimensions are applicable as below. For material no. 1.4901, 1.4903, 1.4907 acc. to AD2000 rules, the manufacturer must be listed in the VdTÜV material data sheet 552/3, 511/3, 550 or single approval with a 3.2 certificate is requested. The production safety(statistics)has been proved. **3.2 certificate is requested regardless of thickness.	
2	1.4301, 1.4306, 1.4401, 1.4404 1.4435, 1.4436, 1.4541, 1.4571	DIN EN 10222-5	+AT	Forged Product	10	700	205	550	1	12	AD2000-W2 & W10		
3	**1.5415, **1.7383, *1.4901, *1.4903	DIN EN 10222-2 VdTÜV 511/3 VdTÜV 552/3	+NT/+QT	Forged Product	10	*400	70	*600	1	13	AD2000-W13		
4	1.4301, 1.4306, 1.4401, 1.4404, 1.4571, 1.4539, 1.4435 **1.4501, 1.4912, 1.4307, 1.4541, *1.4907	DIN EN 10216-5 VdTÜV 550	+AT	Seamless Pipe	1.0	*23.01	10	*273.1	2	800	AD2000-W2 & W10		
5	1.4301, 1.4307, 1.4401, 1.4404 1.4567	DIN EN 10269	+AT	Wire Rod	-	-	5.5	34	1	2	AD2000-W2 & W10		
6	**1.7383	DIN EN 10273	+NT	Rolled Bar	-	-	28	205	1	2	AD2000-W13		



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Location:		147, Jeokhyeon-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, 51708, Republic of Korea				Changwon-si,						Date:	09.06.2023	Industrie Service	
												Rev.:	24	GmbH	
Cur -	Materials-term Materials-No.	Material Specification	Deliver y Cond.	Article Type of Product	Dimensions				Weight max		Technical Specifications Requirements	Technical Regulations	Remarks		
					Thick- ness mm		Ø mm		1=t / 2=kg						
					fro m	Up to	fro m	Up to	↓	resul t					
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10			
<b>3. Materials according to other standards</b>															
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1	(S)A453 Gr.660	ASME/ASTM (S)A453	+AT	Rolled Bar	-	-	5.5	205	1	2	ASME/ASTM				
2	(S)A453 Gr.660	ASME/ASTM (S)A453	+AT	Forged Bar	-	-	205	550	1	12	ASME/ASTM				
*3	316L(N)-IG	ITER_D_2DX6KS v1.4	+AT	Forged product	-	2000	-	2300	1	70	RCC-MR,2007, Section2- Materials Chapter RM3321	*3.2 certificate is required because of insufficient material data.			
4	1.4305	EN10088-3	+AT	Rolled & Forged product	-	-	16	350	1	5	EN10088-3	See "a".			
5	1.4301, 1.4306, 1.4401, 1.4404 1.4435, 1.4436, 1.4541, 1.4571	EN10088-3	+AT	Wire Rod	-	-	5.5	34.0	1	2	EN10088-3				
6	(S)A213 S30432, TP304/304L, TP316/316L	ASME/ASTM (S)A213	+AT	Seamless Pipe	1.0	23.0	10	273.1	2	800	ASME/ASTM				
<b>Remarks</b>		+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:		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I point 4.3			<input checked="" type="checkbox"/> EN 764-4				<input checked="" type="checkbox"/> AD 2000-Merkblatt W 0				
Certificate holder (Manufacturer of materials)				Manufacturing plant				Nationality		Page No.:	3		
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Location:		147, Jeokhyeon-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, 51708, Republic of Korea			147, Jeokhyeon-ro, Seongsan-gu, Changwon-si,						Date:	09.06.2023	
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					fro m	Up to	fro m	Up to	↓	resul t			
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10	
7	(S)A276 304/304L, 316/316L, 321	ASME/ASTM (S)A276	+AT	Rolled Bar	-	-	5.5	205	1	2	ASME/ASTM	See "a".	
8	(S)A479 304/304L, 316/316L, 321/321H	ASME/ASTM (S)A479	+AT	Rolled bar	-	-	5.5	205	1	2	ASME/ASTM		
9	(S)A276 304/304L, 316/316L, 321	ASME/ASTM (S)A276	+AT	Forged Bar	10	700	205	550	1	12	ASME/ASTM		
10	(S)A479 304/304L, 316/316L, 321/321H	ASME/ASTM (S)A479	+AT	Forged Bar	10	700	205	550	1	12	ASME/ASTM		
11	B637	ASTM B637	+AT	Rolled Bar	-	-	5.5	205	1	19	ASTM		
12	2.4856, 2.4858	DIN 17752	+AT	Rolled Bar	-	-	5.5	205	1	18	DIN 17752		
13	A493 304/304L, 316/316L, 316Ti	ASTM A493	+AT	Wire Rod	-	-	5.5	34	1	2	ASTM		
14	(S)A312 TP304/304L, TP316/316L	ASME/ASTM (S)A312	+AT	Seamless Pipe	1.0	23.0	10	273.1	2	800	ASME/ASTM		
15	(S)A376 TP304, TP316	ASME/ASTM (S)A376	+AT	Seamless Pipe	1.0	23.0	10	273.1	2	800	ASME/ASTM		
16	1.4301, 1.4307, 1.4401, 1.4404	EN 10297-2	+AT	Seamless Pipe	1.0	23.0	10	273.1	2	800	EN10297-2		



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