

Certificate

Quality-Assurance System for Manufacturer of Materials acc. to Directive 2014/68/EU

Certificate no.: 01 202 317/Q-08 0001

Name and address of the
manufacturer:

Tube Tec Rohrverformungstechnik GmbH
Hirtscheider Straße 13-15
D - 57647 Nistertal

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, Par. 4.3, with regard to the materials as listed in the scope of approval.

Tested acc. to
Directive 2014/68/EU:

**QM System acc. to EN 764-5, article 4.2 and
AD 2000-Merkblatt W0**

Audit report no.:

317/Q-08 0001

Area of validity:

Manufacturing of bended tubes, coilsystems and boiler parts,
see annex to certificate

Manufacturing plant:

Siemensstraße 17
D - 56457 Westerbürg-Sainscheid

Valid until:

March 18, 2023

Cologne, April 3, 2020

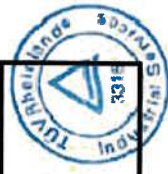
Dipl.-Ing. (FH) Vera Ruff



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

E-008-D-Rev22

Scope according to		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3		<input type="checkbox"/> EN 764-4		<input checked="" type="checkbox"/> AD 2000-Merkblatt W0		<input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+)	
Company Name: TUBE-TEC Rohrverformungstechnik GmbH		Manufacturer		Work		Nationality		Page No..	
Location: Hirtscheider Straße 13-15 57647 Nistertal		Siemensstraße 17 56457 Westerbург		German		27.02.20		1	
Materials-term Materials-No.		Material Specification		Delivery Cond.		Article Type of Product		Dimensions	
2		3		4		5		6a 6b 7a 7b 8a 8b	
1		stainless steel		DIN EN 10216-5 DIN EN 10217-7		+AT		1 13 10 323,9	
2		stainless steel		DIN EN 10216-5 DIN EN 10217-7		+AR		1 13 10 323,9	
3		carbon steel: P235GH, P355, 16Mo3		DIN EN 10216-2		+N		1 13 10 323,9	
4		carbon steel: 16Mo3, 13CrMo4-5, 10CrMo9-10, X20CrMoV12-1		DIN EN 10216-2		+QT		1 13 10 323,9	
5		carbon steel: 13CrMo4-5, 10CrMo9-10, X20CrMoV12-1		DIN EN 10216-2		+SR		1 13 10 219,1	
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					
<p>1. Materials according to harmonized European standards (hEN) and European Approval for Materials (EAM) acc. Directive 2014/68/EU</p> <p>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>									
1		stainless steel		DIN EN 10216-5 DIN EN 10217-7		+AT		1 13 10 323,9	
2		stainless steel		DIN EN 10216-5 DIN EN 10217-7		+AR		1 13 10 323,9	
3		carbon steel: P235GH, P355, 16Mo3		DIN EN 10216-2		+N		1 13 10 323,9	
4		carbon steel: 16Mo3, 13CrMo4-5, 10CrMo9-10, X20CrMoV12-1		DIN EN 10216-2		+QT		1 13 10 323,9	
5		carbon steel: 13CrMo4-5, 10CrMo9-10, X20CrMoV12-1		DIN EN 10216-2		+SR		1 13 10 219,1	
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					



Scope according to		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3	<input type="checkbox"/> EN 764-4	<input checked="" type="checkbox"/> AD 2000-Merkblatt W0	<input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+)
Manufacturer					
Company Name: TUBE-TEC Rohrverformungstechnik GmbH		Siemensstraße 17		TÜV Rheinland Industrie Service GmbH	
Location: 57647 Nistertal		56457 Westerbург		Date: 27.02.20	Page No.: 2
Materials-term Materials-No.		Material Specification	Delivery Cond.	Article Type of Product	Dimensions
Cur -					Thick-ness mm
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.					
6	stainless:	DIN EN 10216-5 DIN EN 10217-7	+AR	cold bended, seamless and/or welded tube coil see above	EN 13445:EN 12952: EN 12953, EN 13480
7	carbon steel: P235GH, P355, 16Mo3, 13CrMo44, 10CrMo910, X20CrMoV121	DIN EN 10216-2	+AR	see above	see above
8	P235GH	DIN EN 10217-2	+AR	see above	see above
9	1.4462, 1.4362	DIN EN 10216-5 DIN EN 10217-7	+AR = for tube coils +AT = for fittings	see above	see above
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	



Scope according to		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3	<input type="checkbox"/> EN 764-4		<input checked="" type="checkbox"/> AD 2000-Merkblatt W0	<input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+)			
Manufacturer				Page No.					
Company Name: TUBE-TEC Rohrverformungstechnik GmbH			Siemensstraße 17		TÜV Rheinland Industrie Service GmbH				
Location: 57647 Nistertal			56457 Westerbürg		27.02.20				
					Rev.: 11 of : 6				
Materials-term Materials-No.		Material Specification	Delivery Cond.	Article Type of Product	Dimensions	Weight max	Technical Specifications Requirements		
					Thick-ness mm	1=t / 2=kg	Technical Regulations		
					from to	↓			
					from to	res ult			
					6a 6b 7a 7b	8a 8b			
1		2	3	4	5	6	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.									
10	stainless steel:	DIN EN 10216-5 DIN EN 10217-7	+AT	cold bended, seamless and/or welded tubes	1	13	10	323,9	AD2000 W2, -W10
11	stainless steel:	DIN EN 10216-5 DIN EN 10217-7	+AR	see above	1	13	10	323,9	AD2000 W2, -W10
12	carbon steel: P235GH, P355, 16Mo3	DIN EN 10216-2	+N	see above	1	13	10	323,9	AD2000 W4
13	carbon steel: 16Mo3, 13CrMo4-5, 10CrMo9-10, X20CrMoV12-1	DIN EN 10216-2	+AR	see above	1	13	10	323,9	AD2000 W4
14	carbon steel: 13CrMo4-5, 10CrMo9-10, X20CrMoV1-21	DIN EN 10216-2	+SR	see above	1	13	10	219,1	AD2000 W4
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					



Scope according to		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3	<input type="checkbox"/> EN 764-4	<input checked="" type="checkbox"/> AD 2000-Merkblatt W0	<input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+)
Manufacturer					
Company Name: TUBE-TEC Rohrverformungstechnik GmbH		Siemensstraße 17 56457 Westerbürg		Nationality	German
Location: 57647 Nistertal				Date	27.02.20
				Rev.:11	of: 6
				Page No..	4
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions
					Thick-ness mm
					from to
					Up to
					from to
					Up to
					7a 7b
					6a 6b 7a 7b
1	2	3	4	5	8a 8b
					9
					10

2. Materials according to the AD 2000-Code

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	Materials	Material Specification	Delivery Cond.	Article Type of Product	Dimensions	Weight max	Technical Specifications	Remarks
					Thick-ness mm	1=l / 2=kg	Technical Regulations	
					from to	↓		
					Up to	res ult		
					6a 6b 7a 7b	8a 8b		
15	stainless steel:	DIN EN 10216-5 DIN EN 10217-7	+AR	cold bended, seamless and/or welded tube coil	1 13 10 219,1		AD2000 W2, -W10	
16	carbon steel: P235GH, P355, 16Mo3, 13CrMo44, 10CrMo910, X20CrMoV121	DIN EN 10216-2	+AR	see above	1 13 10 219,1		AD2000 W4	
17	P235GH	DIN EN 10217-2	+AR	see above	1 13 10 219,1		AD2000 W4	
18	1.4462, 1.4362	DIN EN 10216-5 DIN EN 10217-7	+AR = for tube coils +AT = fo fittings	see above	1 7,1 10 114,3		AD2000 W2, -W10 VdTUV 1252	basic material confirmed according to VdTUV data sheets no 418 and 496

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



Annex to Certificate No. : 01 202 .317/Q-08 0001



Scope according to		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3		<input type="checkbox"/> EN 764-4		<input checked="" type="checkbox"/> AD 2000-Merkblatt W0		<input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+)	
Manufacturer				Work		Nationality		Page No..	
Company Name: TUBE-TEC Rohrverformungstechnik GmbH Hirtscheider Straße 13-15 57647 Nisterstal				Siemensstraße 17 56457 Westerbürg		German		5	
Materials-term Materials-No.		Material Specification		Delivery Cond.		Article Type of Product		Dimensions	
								Thick-ness mm	
								from to	
								mm	
								Ø	
								from to	
								6a 6b 7a 7b	
								8a 8b	
1		2		3		4		5	
								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.

19	special materials (Nickel, Nickelalloys, Titanium)	VdTUV WB	+AR	cold bended, seamess and/or welded tubes and tube coils	1	13	10	219,1	AD2000/W2, -W10	basic material confirmed according to VdTUV data sheets
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Remarks	+AT = solution annealed	+NT = normalized and tempered
	+AR = as rolled	+QT = quenched and tempered
	+M = thermo mechanical treated	+S = soft annealed
	+N = normalized or normalizing formed	+SR = stress relieved



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Scope according to		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3		<input type="checkbox"/> EN 764-4		<input checked="" type="checkbox"/> AD 2000-Merkblatt W0		<input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+)			
Manufacturer				Work		Nationality		Page No..			
Company Name: TUBE-TEC Rohrverformungstechnik GmbH Hirtscheider Straße 13-15 57647 Nistertal				Siemensstraße 17 56457 Westerbürg		German		27.02.20 Rev.:11 of: 6			
Materials-term Materials-No.		Material Specification		Delivery Cond.		Article Type of Product		Dimensions			
Cur -		3		4		5		Thick-ness mm			
2		6a		6b		7a		7b			
1		8a		8b		9		10			
<p>3. Materials according to international standards (e. g. ASTM, ASME, IBR etc.)</p> <p>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.</p>											
20	carbon steel	A106, A178, A182, A192, A213, A333, A790	+N, +QT	cold bended, seamless and/or welded tubes and tube coils	1	13	10	323,9	ASTM/ASME	PMA for the use in pressure equipment in Directive 2014/68/EU necessary	
21	stainless steel	A182, A192, A213, A312, A790	+AT, AR	see above	1	13	10	219,1	see above	see above	
23	special materials (Nickel, Nickelalloys, Titanium)	B407, B409, B434, B514, B619	+S, +AT	see above	1	13	10	219,1	See above	see above	
Results		+AT = solution annealed		+NT = normalized and tempered		+AR = as rolled		+QT = quenched and tempered			
		+M = thermo mechanical treated		+S = soft annealed		+N = normalized or normalizing formed		+SR = stress relieved			

