

# Zertifikat

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

Zertifikatsnummer: 01 202 CHN/Q-24 0102.00

Name und Anschrift des  
Zertifikatsinhaber: **PETROLEUM EQUIPMENT (THAILAND) CO., LTD.**  
**7/522 Moo.6 Mabyangporn, Pluakdaeng,**  
**Rayong 21140**  
**Thailand**

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-24 0102

Geltungsbereich: **Herstellung von nahtlosen Rohren aus unlegiertem und  
legiertem Stahl, siehe Anlage zum Zertifikat:**  
**01 202 CHN/Q-24 0102, Revision 0 vom Feb. 01 2024**

Fertigungsstätte: siehe Zertifikatsinhaber

Gültigkeit: **Dieses Zertifikat ist gültig bis 11.02.2027.**

Köln, 12.02.2024

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-24 0102.00

Name and address of the certificate holder: **PETROLEUM EQUIPMENT (THAILAND) CO., LTD.  
7/522 Moo.6 Mabyangporn, Pluakdaeng,  
Rayong 21140  
Thailand**

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-24 0102

Scope: **Manufacturing of seamless non-alloy and alloy steel pipes and tubes, see annex to certificate: 01 202 CHN/Q-24 0102, revision 0 from Feb. 01 2024**

Manufacturing plant: see certificate holder

Validity: **This certificate is valid to 2027-02-11.**

Cologne, 2024-02-12

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 according to		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3	<input checked="" type="checkbox"/> EN 764-4		<input checked="" type="checkbox"/> AD 2000-Merkblatt W0		<input type="checkbox"/> Regulation (EU) No. 305/2011(System 2+)					
Manufacturer					Work		Nationality					
Company Name: Petroleum Equipment (Thailand) Co., Ltd.					Same as left		Thailand					
Location: 7/522 Moo. 6 Mabyangporn, Pluakdaeng Rayong, 21140 Thailand							Date					
							Feb. 01 2024					
							Rev.: 0					
							Page No.: 1					
							of : 4					
							TÜV Rheinland Industrie Service GmbH					
Cur		Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions	Weight max	Technical Specifications Requirements	Remarks			
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
1	P235GH, P265GH, 16Mo3,	EN 10216-2	N	Seamless tubes (* for hot finished pipe)	2.5	4.5*	12	12.7	406	140*	-	-
<p><b>1. Materials according to harmonized European standards (hEN) and European Approval for Materials (EAM) acc. Directive 2014/68/EU</b></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>												
<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						

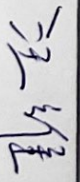
汪維

Scope according to	<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3	<input checked="" type="checkbox"/> EN 764-4	<input checked="" type="checkbox"/> AD 2000-Merkblatt W0	<input type="checkbox"/> Regulation (EU) No. 305/2011 (System 2+)					
Manufacturer Company Name: Petroleum Equipment (Thailand) Co., Ltd. Location: 7/522 Moo. 6 Mabyangpoom, Pluakdaeng Rayong, 21140 Thailand		Work Same as left		Nationality Thailand					
		Date Feb. 01 2024		Page No.: 2					
		Rev.: 0		of: 4					
		Technical Specifications		Remarks TÜV Rheinland Industrie Service GmbH					
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions	Weight max	Technical Specifications	Requirements Technical Regulations	Remarks
1	2	3	4	5	Thick-ness mm from Up to	mm Ø from Up to	1=t / 2=kg res ult	9	10
					6a 6b 7a 7b	8a 8b			
1	P235GH, P265GH, 16Mo3,	EN 10216-2	N	Seamless tubes (* for cold finished pipe)	2.5* 4.5	12* 12.5	12.7* 48	406* 140	
								AD 2000 W4	
<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									

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.

王維

Scope according to	<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3	<input checked="" type="checkbox"/> EN 764-4	<input checked="" type="checkbox"/> AD 2000-Merkblatt W0	<input type="checkbox"/> Regulation (EU) No. 305/2011(System 2+)								
Manufacturer		Work		Nationality								
Company Name: Petroleum Equipment (Thailand) Co., Ltd. Location: 7/522 Moo. 6 Mabyangporm, Pluakdaeng Rayong, 21140 Thailand		Same as left		Thailand								
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions		Weight max	Technical Specifications Requirements Technical Regulations	Remarks			
					Thickness mm	Ø mm						
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
<b>3. Materials according to international standards ( e. g. ASTM, ASME, IBR etc. )</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	SA106B, SA106C	ASME SA106/ASTM A106	AR or N*	Seamless tubes (* for cold finished pipe)	2.5*	12*	12.7*	48	406*	-	-	a
2	B	ASME SA53/ASTM A53	AR or N*	Seamless tubes (* for cold finished pipe)	2.5*	12*	12.7*	48	406*	-	-	a
3	T2, T5, T9, T11, T12, T22, T91	ASME SA213/ASTM A213	NT	Seamless tubes (* for cold finished pipe)	2.5*	12*	12.7*	48	127*	-	-	a
4	P1, P2, P5, P11, P12, P22, P91	ASME SA335/ASTM A335	NT	Seamless tubes (* for cold finished pipe)	2.5*	12*	12.7*	48	406*	-	-	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 necessary											



Scope according to	<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3	<input checked="" type="checkbox"/> EN 764-4	<input checked="" type="checkbox"/> AD 2000-Merkblatt W0	<input type="checkbox"/> Regulation (EU) No. 305/2011(System 2+)				
Manufacturer		Work		Nationality				
Company Name: Petroleum Equipment (Thailand) Co., Ltd.		Same as left		Thailand				
Location: 7/522 Moo. 6 Mabyangporm, Pluakdaeng Rayong, 21140 Thailand		Date		Page No..				
		Feb. 01 2024		4				
		Rev.: 0		of : 4				
		Technical Specifications Requirements		Remarks				
		1=1 / 2=kg res ult						
		9		10				
<b>3. Materials according to international standards ( e. g. ASTM, ASME, IBR etc. )</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.								
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions	Weight max	Technical Specifications Requirements	Remarks
1	2	3	4	5	6a 6b 7a 7b	8a 8b	9	10
5	St35.8, St145.8, 15Mo3, 13CrMo4 4, 10CrMo9 10	DIN 17175	N HT	Seamless tubes (* for cold finished pipe)	2.5* 12* 12.7* 406* 4.5 12.5 48 140	-		a
6	St37, St144, St52	DIN 1629	AR or N*	Seamless tubes (* for cold finished pipe)	2.5* 12* 12.7* 406* 4.5 12.5 48 140	-		a
7	E355K2	EN 10297-1	N	Seamless tubes (* for cold finished pipe)	2.5* 12* 12.7* 406* 4.5 12.5 48 140	-		a
8	1, 3, 5	ASME SA333/ASTM A333	N	Seamless tubes (* for cold finished pipe)	2.5* 12* 12.7* 406* 4.5 12.5 48 140	-		a
9	TP304, TP304L, TP316, TP316L	ASME SA312	AT	Cold finished seamless tubes	2.5 12 12.7 406			a
<b>Results</b>		<b>+AT = solution annealed</b>		<b>+NT = normalized and tempered</b>		<b>a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary</b>		
<b>+AR = as rolled</b>		<b>+QT = quenched and tempered</b>		<b>+S = soft annealed</b>				
<b>+M = thermo mechanical treated</b>				<b>+SR = stress relieved</b>				
<b>+N = normalized or normalizing formed</b>								
<b>+HT = Hardening and tempering</b>								

江維