

CERTIFICATE

The TÜV NORD Systems GmbH & Co. KG

certifies that the company

Chandan Steel Limited – Seamless Tube Division

Plot No. 142, G.I.D.C. Umbergaon – 396 171

Dist. Valsad, Gujarat, India

has been verified and recognized as material manufacturer according to

AD 2000-Merkblatt W0

Certificate-No.: 07/203/1409/WP/1491/16

The scope of approval is available in the annex
“scope of approval”.

File no.: 811 481 2182 / SEI-611/17.

The company fulfils the following essential requirements:

Facilities permitting appropriate manufacturing and inspection corresponding to the present technical standards, quality assurance, which guarantees that manufacturing and inspection of products stated in our scope of approval are carried out in accordance with technical regulations, competent supervising and inspecting personnel.

This certificate is valid until

December 2019

Essen, 09.12.2016




Niekamp

TÜV NORD Systems GmbH & Co. KG

TÜV NORD Systems GmbH & Co. KG • Region Essen •
Langemarckstr. 20 • 45141 Essen

Telephone +49 201-825-2722 • Fax +49 201-925-2858 • E-mail: dniekamp@tuev-nord.de

CERTIFICATE

**Quality-Assurance System for material manufacturer
according to Pressure Equipment Directive 2014/68/EU**

Certificate no.: 07/202/1409/WZ/1491/16

**Name and address
of the manufacturer:**

**Chandan Steel Limited – Seamless Tube Division
Plot No. 142, G.I.D.C. Umbergaon – 396 171
Dist. Valsad, Gujarat, India**

Herewith we certify that the manufacturer has established and applies a **quality-assurance system related to the material**. This QA System has been subjected to a specific assessment acc. to directive 2014/68/EU, annex I, point 4.3 with regard to the materials mentioned in the scope of approval..

Approved acc. to directive
2014/68/EU:

**QA-System in relation to materials,
EN 764-5, section 4.2 and AD2000-Merkblatt W0**

Certification file no.:

811 481 2182

Audit report file no.:

811 415 6454 (TN India)

Scope of approval:
(product / material)

Seamless Stainless Steel Pipes, Tubes and U-Tubes

Production site:

**Plot No. 142, G.I.D.C. Umbergaon – 396 171, Dist. Valsad,
Gujarat, India**

The certificate is valid until:

December 2019

Only valid in conjunction with a valid certificate acc. to EN ISO 9001.

Essen, 09.12.2016

Annex: scope of approval

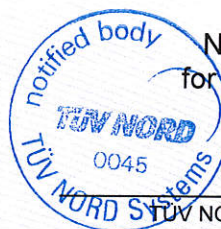
Region: Essen
Langemarckstr. 20
45141 Essen, Germany

Phone: +49-(0) 201-825-2722
Fax +49-(0) 201-825-2858
e-mail dniekamp@tuev-nord.de

Member of



CONFÉDÉRATION EUROPÉENNE D'ORGANISMES DE CONTRÔLE



Notified Body (0045)
for Pressure Equipment

Niekamp

TUV NORD Systems GmbH & Co. KG,
Große Bahnstraße 31, D-22525 Hamburg

TÜV NORD Systems GmbH & Co. KG

Notified Body for Pressure Equipment Directive (PED), Reg. No. 0045

Scope of approval for material manufacturer acc. to Pressure Equipment Directive 2014/68/EU, annex I, pt. 4.3 and AD 2000-Merkblatt W0 / AD2000-Guidelines W0



Niekamp

Firm: Chandan Steel Limited (Seamless Tube Division)
 Place: Plot No.142, G.I.D.C. Umbergaon - 396171 Dist. Valsad, Gujarat,
 Annex to Certificate
 DGR-L-Nr.: 07/202/1409/WZ 1491 16
 AD 2000-W0-Nr.: 07/203/1409/WP 1491 16
 Date : 09.12.2016
 TÜV-File: SEI-611/17
 SAP 811 481 2182



Item No.	Material Designation Material number	Material Specification	Delivery Condition	Article Type of product	Dim. [mm] Thickness	Dim. Ø [mm] Weight [kg, t]	Techn. Specification Requirements	Remarks
1	2	3	4	5	6	7	8	9
1.1	1.4301	EN 10216-5	+AT	Seamless Stainless Steel Tubes and Pipes.	6.00 mm to 168.28 mm Outside Diameter	0.70 mm to 13.50 mm Wall Thickness	Directive 2014/68/EU AD 2000 Merkblatt W2 AD 2000 Merkblatt W10	Certified acc. to PED annex I, pt. 4.3 by the Notified Body of TÜV NORD Systems (Reg. no. 0045). For Wall thickness > 5,6 mm with 3.2 Inspection certificate
1.2	1.4306		+AT					
1.3	1.4307		+AT					
1.4	1.4401		+AT					
1.5	1.4404		+AT	Seamless Stainless Steel U" Tubes	12.70 mm to 25.40 mm Outside Diameter	1.20 mm to 2.77 mm Wall Thickness		
1.6	1.4541		+AT					
1.7	1.4571		+AT					
1.8	1.4550		+AT					
2.1	1.4462	EN 10216-5	+AT	Directive 2014/68/EU Directive 2014/68/EU				
2.2	1.4410		+AT					

Explanation: +AT / AT = solution heat treated and detemred; N = Normalized or normalizing rolled / forming;
 NT = normalized and tempered; +QT / V = quenched and tempered; M = thermo mechanical treated
 AR = without annealing; SR = stress relieved; A = soft annealed; CR = controlled hot rolled
 Hints for materials use acc. to Directive 2014/68/EU : The specific material operation conditions have to be approved by pressure equipment manufacturer and by the notified body in charge

TÜV NORD Systems GmbH & Co. KG

Notified Body for Pressure Equipment Directive (PED), Reg. No. 0045
Scope of approval for material manufacturer acc. To Pressure Equipment Directive 2014/68/EU, annex I, pt. 4.3 and Ad 2000-Merkblatt W0 / AD2000-Guideline W0



Niekamp

Firm: Chandan Steel Limited (Seamless Tube Division) **Date:** 09.12.2016
Place: Plot No.142, G.I.D.C. Umbergaon - 396171 Dist. Valsad, Gujarat **DGRL-Nr.:** 07/202/1409/WZ 1491 16 **TÜV-File:** SEI-611/17
AD 2000-W0-Nr.: 07/203/1409/WP 1491 16 **SAP:** 811 481 2182

Annex to Confirmation

Item No.	Material Designation Material Number	Material Specification	Delivery Condition	Article Type of product	Dim. [mm] Thickness	Dim. Ø [mm] Weight [kg, t]	Techn. Specification Requirements	Remarks
1	2	3	4	5	6	7	8	9
3.1	TP 304	ASTM A 213/ A 213M	+AT	Seamless Stainless Steel	6.00 mm to	0.70 mm to		
3.2	TP 304L	ASTM A 312/ A 312M	+AT	Tubes and Pipes.	168.28 mm	13.50 mm Wall		
3.3	TP 304H	ASTM A 269	+AT		Outside	Thickness		
3.4	TP 316	ASME SA 213/ SA 213M	+AT		Diameter			
3.5	TP 316L	ASME SA 312/ SA 312M	+AT					
3.6	TP 321	ASME SA 312/ SA 312M	+AT	Seamless Stainless Steel	12.70 mm to	1.20 mm to		
3.7	TP 321H		+AT	U" Tubes	25.40 mm	2.77 mm Wall		
3.8	TP 310S		+AT		Outside	Thickness		
3.9	TP 347		+AT		Diameter			
3.10	TP 347H		+AT					
3.11	TP 316 Ti / S31635	ASTM A 213/ A 213M ASTM A 312/ A 312M ASME SA 213/ SA 213M ASME SA 312/ SA 312M	+AT	Seamless Stainless Steel	6.00 mm to	0.70 mm to		
				Tubes and Pipes.	168.28 mm	13.50 mm Wall		
					Outside	Thickness		
					Diameter			
3.12	S31803	ASTM A 789 / A 790	+AT	Seamless Stainless Steel	12.70 mm to	1.20 mm to		
3.13	S32205	ASME SA 789 / SA 790	+AT	U" Tubes	25.40 mm	2.77 mm Wall		
3.14	S32750		+AT		Outside	thickness		
					Diameter			
								If used in the area of Pressure Equipment directive a Particular Material Appraisal (PMA) is necessary

Explanation: +AT / AT = solution heat treated and detemred; N = Normalized or normalizing rolled / forming;
NT = normalized and tempered; +QT / V = quenched and tempered; M = thermo mechanical treated
AR = without annealing; SR = stress relieved; A = soft annealed; CR = controlled hot rolled