

# Certificate

## Quality-Assurance System for Manufacturer of Materials

acc. to Directive 2014/68/EU

Certificate no.: 01 202 IND/Q-11 0006

Name and address of the manufacturer: **Aditya Forge Limited**  
415, GIDC, Ramangamdi,  
Por, DIST. Vadodara Gujarat

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

Audit report no.: IND/Q-11 0006

Range of materials: Manufacturing and supply of Forgings, Forged Bars, Formed and Machined Components, Pipe and Pipe Fittings seamless and welded in Stainless Steel, Carbon Steel and Alloy Steel, see annex to certificate

Manufacturing plant: Aditya Forge Limited  
415, GIDC, Ramangamdi,  
Por, DIST. Vadodara Gujarat

Valid until: March 22, 2020

*O. Theisen*



Cologne, August 07, 2017


i. V. Dipl.-Ing. Oliver Theisen


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


E-108-E-Rev21

www.tuv.com

 **TÜVRheinland®**  
Precisely Right.

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	Date	Page No..													
Company Name: Aditya Forge Limited.				415, GIDC, Ramangamdi, Por, DIST. Vadodara Gujarat				India	19-06-17	1	TÜV Rheinland Industrie Service GmbH												
Location: 415, GIDC, Ramangamdi, Por, DIST. Vadodara Gujarat								Rev.: 1	of :	3													
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond. *	Article Type of Product	Dimensions				Weight max 1=t / 2=kg ↓ res ult	Technical Specifications. Requirements Technical Regulations	Remarks												
					Thickness mm from	upto	Ø mm 7a	7b				8a	8b	9	10								
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10											
<b>1. Materials according to the AD 2000-Code</b>																							
<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.</b>																							
1	X5CrNi18-10 (1.4301)	EN 10222-5	AT									Flanges " 150# to 2500#											
2	X5CrNiMo17-12-2 (1.4401)	EN 10222-5	AT	Flanges	Std	XXS	1/2"	48"			AD2000 W2												
3	X2CrNiMo17-12-2 (1.4404)	EN 10222-5	AT	Forge Fitting			1/2"	4"															
4	X2CrNi18-9 (1.4307)	EN 10222-5	AT	Pipe Fittings			1/2"	24"															
5	X6CrNiTi18-10 (1.4541)	EN 10222-5	AT	Forged Bars			4"	16"															
6	X6 CrNiMoTi17-12-2 (1.4571)	EN 10222-5	AT																				
<b>Results</b>																							
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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	Date	Page No..	
Company Name: Aditya Forge Limited				415, GIDC, Ramangamdi, Por, DIST. Vadodara Gujarat				India	19-06-17	2	
Location: 415, GIDC, Ramangamdi, Por, DIST. Vadodara Gujarat								Rev.: 1	of : 3	TÜV Rheinland Industrie Service GmbH	
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond. *	Article Type of Product	Dimensions				Weight Max 1=t / 2=kg ↓ result	Technical Specifications Requirements Technical Regulations	Remarks
					Thickness mm		Ø mm				
					from	upto	from	upto			
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.											
7	X5CrNi18-10 (1.4301)	EN 10216-5	AT	Seamless Pipes and Tubes	0.4	12	15	325		AD2000 W2	
8	X5CrNiMo17-12-2 (1.4401)	EN 10216-5	AT								
9	X2CrNiMo17-12-2 (1.4404)	EN 10216-5	AT								
10	X2CrNi18-9 (1.4307)	EN 10216-5	AT								
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<b>1. Materials according to international standards ( e. g. ASTM, ASME, IBR etc. )</b>																							
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13	ASTM A 105	ASTM	N	Flanges Forge Fitting Pipe Fittings Forged Bars	Std	XXS	1/2"	48"				Flanges " 150# to 2500#  PMA for the use in pressure equipment is mandatory  											
14	LF 2	ASTM A 350	NT																				
15	F5, F9, F11, F22, F91	ASTM A 182	NT																				
16	F51, F52, F60, F310	ASTM A 182	AT																				
17	F304, F304L, F316, F316L	ASTM A 182	AT																				
18	F46	ASTM A 182	QT																				
19	F347, F347H, F321	ASTM A 182	AT																				
20	F316LN, F316Ti, F316H	ASTM A 182	AT																				
21	C 22.8 (1.0460)	EN 10222-2	N																				
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