

Certificate

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

Certificate no.: 01 202 IND/Q-16 0017

Name and address of the
manufacturer:

Lal Metal Forge Limited
A-7/1/13 , Electro Steel Casting Compound,
South Side of G.T.Road Industrial Area,
Ghaziabad – 201009, India

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.:

IND/Q-16 0017

Area of validity:

Manufacture of Flanges, Rings, Tube-sheets, forgings in
Carbon Steel , Alloy Steel, Duplex & Stainless Steel,
see annex to certificate

Manufacturing plant:

Lal Metal Forge Limited
A-7/1/13 , Electro Steel Casting Compound,
South Side of G.T.Road Industrial Area,
Ghaziabad – 201009, India

Valid until:

August 24, 2022


Cologne, October 07, 2019


Dipl.-Ing. (FH) Roman Alexander Meyers



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 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: Lal Metal Forge Limited		A-7/1/13 , Electro Steel Casting Compound,South Side of G.T.Road Industrial Area,Ghaziabad – 201009		India	23-08-19	1	TÜV Rheinland Industrie Service GmbH					
Location: A-7/1/13 , Electro Steel Casting Compound , South Side of G.T.Road Industrial Area Ghaziabad – 201009					Rev.: 1	of : 2						
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	Ø mm						
					from	upto						
1	2	3	4	5	6a	6b	7a	7b	8 a	8b	9	10
1. Materials according to international standards (e. g. ASTM, ASME, IBR etc.)												
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	ASTM A 105	ASTM	N	} Flanges Rings Tubesheets Nozzles Bonnets	Std	XXS	12.7	2000			Flanges “ 150# to 2500# Bonnets “ 150# to 2500# PMA for the use in pressure equipment is mandatory 	
2	LF 2, LF3, LF6	ASTM A 350	NT									
3	F1, F5, F6a, F9,F11,F22	ASTM A 182	NT			25	500	100	2000			
4	F51,F53,F55,F60,F91	ASTM A 182	AT			40	250	750	2000			
5	304,304L,316,316L,321	ASTM A 182	AT			50	1000	50	1000			
6	F42,F52,F60,F65,F70	ASTM A 694	QT			Std	XXS	12.7	1000			
7	F347, F347H	ASTM A 182	AT									
8	Gr 2, Gr 4	ASTM A 266	NT									
9	S355J2G3 (1.0570)	EN 1020-2	N									
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 type="checkbox"/> EN 764-4	<input checked="" type="checkbox"/> AD 2000-Merkblatt W0	<input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+)								
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					Thickness mm		Ø mm					
					from	upto	from	upto				
1	2	3	4	5	6a	6b	7a	7b	8a	8b	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.												
10	X5CrNi18-10 (1.4301)	EN 10222-5	AT	} Flanges Rings Tubesheets Nozzles Bonnets	Std	XXS	12.7	2000	AD2000 W2	Flanges “ 150# to 2500# Bonnets “ 150# to 2500#		
11	X5CrNiMo17-12-2 (1.4401)	EN 10222-5	AT		25	500	100	2000				
12	X2CrNiMo17-12-2 (1.4404)	EN 10222-5	AT		40	250	100	2000				
13	X6CrNiNb18-10 (1.4550)	EN 10222-5	AT		50	1000	50	1000				
14	X2CrNi18-9 (1.4307)	EN 10222-5	AT		Std	XXS	12.7	1000				
15	X6CrNiTi18-10 (1.4541)	EN 10222-5	AT									
16	X6CrNiMoTi17-12 (1.4571)	EN 10222-5	AT									
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					