

Certificate

Quality management system for Manufacturer of Materials acc. to Directive 2014/68/EU

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

Name and address of the certificate holder: **Lal Metal Forge Private Limited
A - 7/1/13 ,
Electro Steel Casting Compound,
South Side of GT Road Ind 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.

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

Audit report no.: 01 202 IND/Q-16 0017

Scope: **Manufacture of Flanges, Rings, Tube-sheets, forgings in
Carbon Steel , Alloy Steel, Duplex & Stainless Steel, see annex,
23-07-20, Rev.: 2, to certificate**

Manufacturing plant: see certificate holder

Validity: **This certificate is valid until 2025-08-23.**

Cologne, 2023-02-07

Dipl.-Ing. (FH) Vera Ruff



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 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 Private Limited		A-7/1/13 , Electro Steel Casting Compound,South Side of G.T.Road Industrial Area,Ghaziabad – 201009		India	23-07-20	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.: 2	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							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		2.77	63.5	12.7	2000			
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		2.77	63.5	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	2.77	63.5	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		2.77	63.5	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				