

# Certificate

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

Certificate no.: 01 202 IND/Q-16 0017.00

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, 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 IND/Q-16 0017

Scope:

**Manufacture of Flanges, Rings, Tube-sheets, forgings in Carbon Steel , Alloy Steel, Duplex & Stainless Steel, see annex to certificate: 01 202 IND/Q-16 0017, revision 3 from 05.09.2024**

Manufacturing plant:

see certificate holder

Validity:

**This certificate is valid to 2025-08-23.**

Cologne, 2025-01-13

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:		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I point 4.3				<input type="checkbox"/> EN 764-4				<input checked="" type="checkbox"/> AD 2000-Merkblatt W 0			
Certificate holder (Manufacturer of materials)				Manufacturing plant				Nationality		Page No.:		1	
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		of :		4	
Location:		A-7/1/13 , Electro Steel Casting Compound South Side of G.T.Road Industrial Area, Ghaziabad – 201009								Date:		05.09.2024	
										Rev.:		3	
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max		Technical Specifications  Requirements Technical Regulations	Remarks	
					Thick-ness mm		Ø mm		1=t / 2=kg				
					from	Up to	from	Up to	↓	res ult			
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10	

**1. Materials according to harmonized European standards (hEN) and European Approval for Materials (EAM) acc. Directive 2014/68/EU**

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.

1	1.5415,1.7335	EN 10222-2	QT	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> Flanges Rings Tubesheets Nozzles Bonnets </div> <div> 2.77 180 12.7 2000  25 500 100 2000  40 250 100 2000  50 100 50 1000  2.77 100 12.7 1000 </div> </div>	
2	1.7383	EN 10022-2	QT/NT		
3	1.0352	EN 10222-2	QT/NT N		
4	1.0425	EN 10222-2	N		
5	1.4903	EN 10222-2	NT		
6	1.4539	EN 10222-5	AT		

Remarks	+AT = solution annealed	+NT = normalized and tempered	a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary
	+AR = as rolled	+QT = quenched and tempered	
	+M = thermo mechanical treated	+S = soft annealed	
	+N = normalized or normalizing formed	+SR = stress relieved	

Scope:		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I point 4.3				<input type="checkbox"/> EN 764-4				<input checked="" type="checkbox"/> AD 2000-Merkblatt W 0			
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Location:		A-7/1/13 , Electro Steel Casting Compound South Side of G.T.Road Industrial Area, Ghaziabad – 201009								Date:		05.09.2024	
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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.

7	1.4301,1.4401,1.4404,1.4550 1.4307,1.4541,1.4571,1.4435	EN 10222-5	AT	<div style="display: flex; align-items: center;"> <div style="border-left: 1px solid black; padding-left: 5px; margin-right: 5px;">           Flanges Rings Tubesheets Nozzles Bonnets         </div> <div>           2.77 180 12.7 2000            25 500 100 2000            40 250 100 2000            50 100 50 1000            2.77 100 12.7 1000         </div> </div>						AD 2000 W2 AD 2000 W10	Flanges – 150# ti 2500#	
8	1.0460,1.0426,1.0425,1.0481	EN 10222-2	N								Bonnets 150# to 2500#	
9	1.0570	EN 10250-2	N									
10	1.0565,1.0566,1.1106	EN 10222-4	N									
11	1.0473	EN 10273	N	Bars			50	500				




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**3. Materials according to other standards**

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.

12	A 105	ASTM A 105	N/NT	Flanges Rings Tubesheets Nozzles Bonnets	2.77	180	12.7	2000				PMA for the use in pressure equipment in Directive 2014/68/EU necessary
13	LF2,LF3,LF6	ASTM A 350	NT									
14	F1,F5,F6a,F9,F11,F12,F22,F91	ASTM A 182	QT/NT		25	500	100	2000				
15	F403,F304L,F304H,F316,F316L,F316H,F321,F321H,F347,F347H,F51,F53,F55,F60.F91	ASTM A 182	AT		40	250	100	2000				
					50	100	50	1000				
16	F42,F46,F48,F52,F50 F52,F60,F65,F70	ASTM A 694	QT/NT									
17	Gr 2, Gr 4	ASTM A 266	N/NT									

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