

BSL**SPECTRO LAB****METALLURGICAL TESTING CENTRE**

(A Unit of BSL Castings Pvt. Ltd.)

(NABL ACCREDITED LAB)

TEST REPORT**WORKS & OFFICE :**

PLOT NO. 263, SECTOR-24

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BSL/SPECTRO/5.10F-01/01/00

CERTIFICATE NO.
T - 1452 & T - 1453

Issued to :	M/s. Nov Sara India (P) Ltd.	Report No.	144119	D.O.T. :	22.05.2010
	7/1, Pritam Road, Unit - II,	Ref. No.	Nil	D.O.R. :	21.05.2010
	Dehra Dun - 248001			J.O. No. :	44298
Sample Description	Sample No. - 4809, Heat No. -10D0560, GG725, GI438				

RESULTS**Chemical Analysis**

Sample ID; J.O.No. - 44298/1

By Spectrometer (ASTM E1507;1998)

<u>Element</u>	<u>%</u>
Carbon	0.050
Silicon	0.297
Sulphur	0.005
Phosphorus	0.020
Manganese	0.331
Nickel	40.402
Chromium	19.820
Molybdenum	2.912
Vanadium	<0.04
Copper	1.745
Tungsten	0.659
Cobalt	0.038
Aluminium	0.018
Magnesium	<0.01
Titanium	1.102
Iron	32.56

Checked By


Authorised Signatory
(Q.M. / T.M.)

- Note :
1. The result listed refer only to the tested samples and applicable parameters, Endorsement of product is neither inferred nor implied.
 2. Total Liability of our Laboratory is limited to the invoiced amount. No liability will be accepted after the sample is taken back.
 3. *Not Covered under NABL Scope.
 4. This report can not be used as an evidence in a court of law.
 5. Samples will be destroyed after 15 days.
 6. Any Complaints about this report should be communicated within 7 days of issue of this report.
 7. This report shall not be reproduced except in full, without the written permission of the Laboratory.

M.D. Steels Pvt. Ltd.

Plot No. F- 669 , Phase - II

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Phone +91 1493 512079/225495 Fax +91 01493 222483

Email: mdsteels@gmail.com Website : www.mdsteels.com

Customer : Nov Sara India Pvt. Ltd. DIV - II A/2 Sara Industrial Estate Ltd. Chakrata Road, Rampur Selaqui, DEHRADUN Uttarakhand - 248197	T.C. No.	M- 339
	dated	18.08.2010
	Heat No.	10 D 0560
	Pour Date	14.04.2010
P. Order : B/MD5/248/10 dated 08.04.2010	Foundry identification :	MD
Specification : Incoloy 825, S.E.S. 26- 590	Casting Processed by induction melting	

CHEMICAL COMPOSITION %

Element	C	Si	Mn	Cr	Ni	Mo	S	Al	Cu	Ti
Minimum	-	-	-	19.50	38.000	2.500	-	-	1.500	0.60
Maximum	0.05	0.500	1.000	23.50	46.000	3.500	0.030	0.200	3.000	1.20
Actual	0.036	0.454	0.458	20.60	38.3	2.53	0.005	0.0116	1.56	0.608

MECHANICAL PROPERTIES

	Y.S	UTS	EL%	Reduction	Charpy At ambient	Bend Test	Hardness		
	Mpa	Mpa	GI: 50mm	Area %	Ambient temp.		HRB		
Min									
Max							83		
Actual							81		

POURING DETAILS

Sl. No.	Pa. SL. No	Description	Job no	Qty.
1	1	Gasket Ring Joint BX150 Item Code - GG 725	1001-249 I/GRI/002/10	500 Nos.
2	2	Gasket Ring Joint BX137 Item Code - GI 435	1001-248 I/GRI/001/10	30 Nos.

Remarks : Visual Inspection Carried out and dimension checked and found Ok.

specification and was found to meet the requirements and also compliance to the purchase order

Checked by: 

Approved by: 

for M. D. Steels Pvt. Ltd.

Quality Control