

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

(A Unit of BSL Castings Pvt. Ltd.)

(NABL ACCREDITED LAB)

WORKS & OFFICE :

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TEST REPORT

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

ued to :

M/s. Nov Sara India (P) Ltd.

7/1, Pritam Road, Unit - II,

Dehra Dun - 248001

Report No.

156593

D.O.T. :

19.11.2010

Ref. No.

Nil

D.O.R. :

18.11.2010

Sample Description

Sample No. - 5379, Heat No. - D-0316 (A) Dia-32.0mm

J.O. No. :

47698

RESULTS**Chemical Analysis** (Fe Base - LAS)

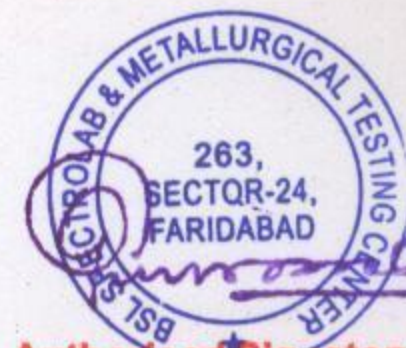
Protocol : ASTM E 1507 (By O.E.S)

Sample ID; J.O.No. - 47698/3

Element**%**

Carbon	0.067
Silicon	0.359
Sulphur	0.028
Phosphorus	0.040
Manganese	1.142
Nickel	10.16
Chromium	16.26
Molybdenum	2.028
Vanadium	0.047
Copper	0.437
Tungsten	0.057
Cobalt	0.198
Aluminium	<0.01
Titanium	<0.02
Iron	69.16

Checked By

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

- te : 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.

**MATERIAL TEST CERTIFICATE**

TC NO-KSL-1499/10-11	Date : 24.10.2010	Customer : M/S NOV SARA INDIA PVT LTD
Heat No. D-0316		DEHRADUN
Specification:- SS 316	P.O. No.: B/KES/257/10 Dated 03.05.2010	Invoice No: 362 Dt. 24.10.2010

SL. NO.	ITEM DESCRIPTION & DRAWING NO.	QUANTITY NOS
1	Round Dia 32 MM FR 071	245

CHEMICAL COMPOSITION

PERCENT	C	Mn	Si	P	S	Cr	Ni	Mo	Cu	Ti	Al	V
AS PER SPEC. Min. (%)						16.00	10.00	2.00				
Max. (%)	0.08	2.00	1.00	0.045	0.030	18.00	14.00	3.00				
Actual Value	0.064	1.31	0.64	0.031	0.019	16.45	10.21	2.00				

HEAT TREATMENT

Condition	Temp. C	Soaking Time Hrs.	Cooling Medium

PHYSICAL PROPERTIES

MECHANICAL PROPERTIES	Y.S. N/mm ²	U.T.S. N/mm ²	ELONG % GL mm	REDN IN AREA %	BEND	HARDNESS BHN	IMPACT (Joules)
AS PER SPEC. Min.							
Max.							
Actual Value							

We hereby certify that the items mentioned above have been tested and inspected in our presence and are found to be in accordance with the drawing, specifications, and purchase order.

REMARK

Sign of the Inspecting Officer
Head Office:G & JU - 26/1, Pitampura;
Delhi - 110088 (INDIA)Telefax : + (91) 11 27343847
Support : + (91) 9810112977

Works:

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Sign of the Chief of Quality Control

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