



# SPAN FORGING PVT. LTD.

Manufacturers of : Steel Forging, CNC Turned Components & Gears

Works : Village - Tatarpur (Near Prithla) Teh. Palwal, Distt. Faridabad, Cell : 9810010535

Ref. No. SF/04/03

Date 24/03/11

## TEST REPORT

Issued to: M/s Nov Sara India Pvt Ltd.  
7/1, Pritam Road, Unit-II  
Dehradun-248001

Report No.

117

D.O.T.

22-03-2011

D.O.R

24-03-2011

Sample Description

T.S.

Sample No.

5855

Heat No.

D-0901

## RESULTS

Chemical Analysis  
By Spectrometer

Sample ID

J.O No.

Element	%
Carbon	0.054
Silicon	0.449
Sulphur	0.0135
Phosphorus	0.026
Manganese	1.1
Nickel	10.01
Chromium	16.51
Molybdenum	2.09
Vanadium	0.0574
Copper	0.341
Tungsten	0
Cobalt	0.161
Aluminium	0.0073
Titanium	0.0202
Iron	69.10

Checked By  
Arun Mishra



Authorised Signatory  
(Q.M / T.M )

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. The report can not be used as an evidence in a court of law.
4. Samples will be destroyed after 15 days.
5. Any Complaints about this report should be communicated within 7 days of issue of this report.
6. This report shall not be reproduced except in full, without the written permission of the Laboratory.
7. \*Not Covered under NABL Scope.



**MATERIAL TEST CERTIFICATE**

TC NO-KSL-2010/10-11	Date : 07.03.2011	Customer : M/S NOV SARA DHERADUN
Heat No. D -0901 Specification:- AISI -316	P.O. No.: B/KES/0009/10 Dt. 27.12.2010	Invoice No: 709 Date 07.03.2011

SL. NO.	ITEM DESCRIPTION & DRAWING NO.	QUANTITY NOS
1	AISI -316 ROUND	85

**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. (%)	0.080	2.00	1.00	0.045	0.030	18.00	14.00	3.00			
Actual Value		0.064	1.40	0.45	0.028	0.020	16.42	10.12	2.10			

**HEAT TREATMENT**

Condition	Temp. C	Soaking Time Hrs.	Cooling Medium

**PHYSICAL PROPERTIES**

MECHANICAL PROPERTIES	Y.S. N/mm <sup>2</sup>	U.T.S. N/mm <sup>2</sup>	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**

The Steel has been made by Electric Furnace which is fully killed by Al & Si. It has fine grain structure.

Sign of the Inspecting Officer  
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Sign of the Chief of Quality Control

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