



# 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/05/03

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.

118

D.O.T.

22-03-2011

D.O.R

24-03-2011

Sample Description

T.S.

Sample No.

5856

Heat No.

D-0898

## RESULTS

Chemical Analysis  
By Spectrometer

Sample ID

J.O No.

Element	%
Carbon	0.0616
Silicon	0.459
Sulphur	0.0169
Phosphorus	0.0321
Manganese	1.09
Nickel	10.18
Chromium	16.26
Molybdenum	2.24
Vanadium	0.0522
Copper	0.374
Tungsten	0
Cobalt	0.218
Aluminium	0.0055
Titanium	0.014
Iron	68.90

Checked By  
Arun Mishra



Autorised 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-1924/10-11	Date : 12.02.2011	Customer : M/S NOV SARA
Heat No. D -0898		DHERADUN
Specification:- AISI -316	P.O. No.:	Invoice No: 647 Date 12.02.2011

SL. NO.	ITEM DESCRIPTION & DRAWING NO.	QUANTITY NOS
1	AISI -316 ROUND	165

#### CHEMICAL COMPOSITION

PERCENT	C	Mn	Si	P	S	Cr	Ni	Mo	Cu	Ti	Al	V
AS PER Min. (%)						16.00	10.00	2.00				
SPEC. Max. (%)	0.080	2.00	1.00	0.045	0.030	18.00	14.00	3.00				
Actual Value	0.061	1.37	0.44	0.027	0.024	16.26	10.14	2.13				

#### 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)
PER Min.							
SPEC. 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

Sign of the Chief of Quality Control