



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. SP/57

Date 31-12-10

TEST REPORT

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

Report No.

57

D.O.T.

31.12.10

D.O.R

28-12-10

Sample Description

DIA 56 MM

Sample No.

5501

Heat No.

D734

RESULTS

Chemical Analysis
By Spectrometer

Sample ID

J.O No.

| <u>Element</u> | <u>%</u> |
|----------------|----------|
| Carbon | 0.0715 |
| Silicon | 0.507 |
| Sulphur | 0.0169 |
| Phosphorus | 0.0319 |
| Manganese | 0.998 |
| Nickel | 10 |
| Chromium | 17.65 |
| Molybdenum | 2.05 |
| Vanadium | 0.476 |
| Copper | 0.317 |
| Tungsten | 0 |
| Cobalt | 0.165 |
| Aluminium | 0.0053 |
| Titanium | 0.0163 |
| Iron | 68.00 |

Checked By
Arun Mishra

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 with in 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.



**KESRI STEELS
LIMITED**

MATERIAL TEST CERTIFICATE

| | | |
|--------------------------|---|---------------------------------------|
| TC NO-KSL-1704/10-11 | Date : 23.12.2010 | Customer : M/S NOV SARA INDIA PVT LTD |
| Heat No. D-0734 | | DEHRADUN |
| Specification:- AISI 316 | P.O. No.: B / KES / 257 / 10 Dt. 03.05.2010 | INVOICE NO: 493 Date 23.12.2010 |

| SL. NO. | ITEM DESCRIPTION & DRAWING NO. | QUANTITY NOS |
|---------|--------------------------------------|--------------|
| 1 | AISI 316 Round Dia 56 mm {FB 765} | 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 | 0.03 | 18.00 | 14.00 | 3.00 | | | | |
| Actual Value | 0.064 | 1.26 | 0.54 | 0.034 | 0.026 | 16.56 | 10.19 | 2.14 | | | | |

HEAT TREATMENT

| Condition | Temp. C | Soaking Time Hrs. | Cooling Medium |
|-----------|---------|-------------------|----------------|
| | | | |

PHYSICAL PROPERTIES

| MECHANICAL PROPERTIES | Y.S. N/mm2 | U.T.S. N/mm2 | 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 -

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Sign of the Quality Control

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