



# SPAN FORGING PVT. LTD.

Manufacturers of : Steel Forging, CNC Turned Components & Gears

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

## TEST REPORT

Ref. No.	Report No.	Date
Issued to: M/s Nov Sara India Pvt. Ltd.	711	D.O.T.
A/2 Sara Industrial Estate Ltd.		11/8/2011
Chakrata Road, Rampur -		D.O.R
Selaqui Dehradun-248001		10/8/2011
Sample Description	Sample No.	Heat No.
AISI-1008	6551-A	S-174-A

## RESULTS

Chemical Analysis  
By Spectrometer

Sample ID

J.O No.

Element	%
Carbon	0.0852
Silicon	0.232
Sulphur	0.0352
Phosphorus	0.0292
Manganese	0.443
Nickel	0.0402
Chromium	0.129
Molybdenum	0.0089
Vanadium	0.0032
Copper	0.0499
Tungsten	0
Cobalt	0.0059
Aluminium	0.0162
Titanium	0.0016
Iron	98.90

Checked By  
Arun Mishra

*Arun Mishra*



Autorised Signatory  
(Q.M / T.M )

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





# SHARU STEELS (P) LTD.

B-48 & D-251, Phase-VII, Focal Point, LUDHIANA - 141 010.  
E-mail : info@sharusteels.com & sharusteels@connect2.dsl.net

QUALITY ASSURANCE DEPARTMENT  
METALLURGICAL TEST REPORT

F-QCD-03



## TEST CERTIFICATE

M/S. NOV SARA INDIA PVT.LTD.  
UNIT-III, A/2 CHAKRATA ROAD  
RAMPUR, SELAQUI,  
DEHRADUN-248 197

T.C. No. 2547 Date 05-11-2011

Invoice No.

Truck No. PB.236-969,

GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND.N.	QNTY. M.T.	NO. OF PCS.
SAE1008	30X30 MM	S 174	L/HT	YELLOW	AS ROLLED	8150	LOOSE

### CHEMICAL COMPOSITION IN PERCENTAGE

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
Min.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Max.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Actual	0.08	0.47	0.022	0.032	0.20	-	-	-	-	0.024	-	-	-	-	-

### METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A									Aust. Grain Size ASTM No. (E-112)	7	Gas content (ppm)	
A		B		C		D		Decarb. (MM)			O <sub>2</sub>	
T	H	T	H	T	H	T	H		Micro-Structure	OK	N <sub>2</sub>	
STD								H <sub>2</sub>				
MAX												
ACTUAL	1.5		1.0		1.5		1.0					

MECHANICAL PROPERTIES							MACRO	ULTRASONIC TEST	MIX UP TEST
	U.T.S.	Y.S.	EL %	RA %	Impact Value	Hardness B.H.N. / R <sub>e</sub>	OK	OK	OK
Requ.									
Actual									

### HARDENABILITY (HRC) AS PER IS : 3848

Distance									
Regd.									
Actual									

Remarks :