

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.

Date.

TEST REPORT

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

Report No.

690

D.O.T.

16-07-2011

D.O.R

15-07-2011

Sample Description
ST SAMPLE

Sample No.

6423

Heat No.

R-581

RESULTS

Chemical Analysis
By Spectrometer

Sample ID

J.O No.

Element	%
Carbon	0.0724
Silicon	0.487
Sulphur	0.0202
Phosphorus	0.0256
Manganese	1.34
Nickel	10.11
Chromium	16.64
Molybdenum	2.09
Vanadium	0.0488
Copper	0.388
Tungsten	0
Cobalt	0.18
Aluminium	0.0137
Titanium	0.0125
Iron	68.50

Checked By
Arun Mishra

Arun Mishra



Autorised Signatory
(Q.M / T.M)

esult listed refer only to the tested samples and applicable parameters. Endorsement of product is neither inferred nor implied. Liability of our Laboratory is limited to the invoiced amount. No liability will be accepted after the sample is taken back. Report can not be used as an evidence in a court of law.

oles will be destroyed after 15 days.

Complaints about this report should be communicated within 7 days of issue of this report.

report shall not be reproduced except in full, without the written permission of the Laboratory.

Covered under NABL Scope.



PARVATI LTD.

Regd Office & Works : 27, Rajasthani Udyog Nagar, G. T. Karnal Road,
NEW DELHI - 33, Phone : 91 - 11 - 27691481, 1282, 1283 Fax : 91 - 11 - 27691909

TEST CERTIFICATE

Customer Name & Destination : M/S NOV SARA INDIA(P)LTD.				T.C.NO.:P-856	Date : 18.3.11	ORDER NO : VERBAL							
Material Specification	Manufacturing Route	Supply Condition	Size	PCS	Colour Code	Weight (Mt)							
AISI-316	INDUCTION FURNACE	AS ROLLED	4X5X44	141	BLUE	32.25 51.35 42.05 19.20							
CHEMICAL ANALYSIS IN PERCENTAGE													
ELEMENTS		C	Mn	Si	S	P	Cr	Ni	Mo	N	NB	Size	Pes.
Specification	Min.												
	Max.												
Heat No.	Grade												
R-578	AISI-316	.072	1.44	.48	.013	.032	16.57	10.11	2.04	.0670		4X5X44	31
R-579	AISI-316	.064	1.51	.52	.016	.034	16.72	10.06	2.06	.0644		4X5X44	50
R-580	AISI-316	.073	1.53	.46	.013	.030	16.60	10.10	2.03	.0691		4X5X44	41
R-581	AISI-316	.069	1.47	.46	.015	.032	16.58	10.08	2.05	.0613		4X5X44	19
ULTRASONIC TESTING ACC. STD : 6mm FBH		REMARKS : NA											
MECHANICAL PROPERTIES : TEST STD ASTM A370													
SPEC	RESULT	Test Condition	UTS (N/MM ²)		YS (N/MM ²)		% EL	% RA	Hardness (BHN)				
			Min.	Max.	Min.	Max.			Min.	Max.			
METALLURGICAL TEST RESULT				Grain Size E 112	IMPACT TESTING :								
INCLUSION RATING ASTM E - 45					Test Temp :	Test Std :							
	A	B	C	D		Sr. No	Impact Energy (J)		Average				
Thin	-	-	-	-		1	-		-				
Thick	-	-	-	-		2	-		-				
						3	-		-				
JOMINY HARDENABILITY : ASTM - 3848							MACROSTREAK FLAW TEST (IS - 4075)						
DIST mm/Inch	J	J	J	J	J	J	Marco Test (ASTM E - 381)	1 st Step	2 nd Step	3 rd Step			
ACTUAL HRC													
Visual Inspection :													
remarks													
1 Impact testing as per dinen 10015 - 1 2 Ultrasonic testing as per astm a 388 3 Material is free from residual radioactive elements. 4 Lead not added during manufacturing. 5 Steel has been manufactured in mercury free environment.													
For Parvati Ltd.													
WE CONFIRM THAT THE TEST CERTIFICATE FINDINGS ARE CORRECT & RESULTS ARE AS PER STANDARD / CUSTOMER'S REQUIREMENTS													
Chemist													
 Authorised Signatory (Q.C.)													