



SPAN FORGING PVT. LTD.

Mfrs. of : Steel Forgings, CNC Turned Components, Centrifugal Casting of alloy steel

Mobile : 9999986702

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Works : Village Tatarpur (Near Prithla) Teh. & Distt. Palwal

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TEST REPORT

Ref. No. Date.....

Issued to: M/s X-CELL India
Subhadra Estate, Sec-58
Samaipur Road, Ballabgarh

Report No.

847

D.O.T.

27/9/2011

D.O.R

Sample Description

DIA 70MM

Sample No.

6703

Heat No.

B7IV-1

PART NAME

RESULTS

Chemical Analysis
By Spectrometer

Sample ID

J.O No.

Element	%
Carbon	0.0171
Silicon	0.205
Sulphur	0.0016
Phosphorus	0.0143
Manganese	0.435
Nickel	40.13
Chromium	21.73
Molybdenum	3.35
Vanadium	0.0663
Copper	1.55
Tungsten	0
Cobalt	0.138
Aluminum	0.122
Titanium	1.07
Iron	31.06

Checked By

Autorised Signatory
(Q.M / T.M)

For Span Forging Pvt. Ltd.

Director

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.

BSL**SPECTRO LAB****METALLURGICAL TESTING CENTRE**

(A Unit of BSL Castings Pvt. Ltd.)

(NABL ACCREDITED LAB)

WORKS & OFFICE :
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 FARIDABAD-121005 (INDIA)
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CERTIFICATE NO.
 T - 1452 & T - 1453

TEST REPORT

BSL/SPECTRO/5.10F-01/01/00

Issued to :	M/s. Nov Sara India (P) Ltd. 7/1, Pritam Road, Unit - II Dehra Dun - 248001	Report No.	182898	D.O.T. :	21.12.2011
		Ref. No.	Nil	D.O.R. :	20.12.2011
Sample Description	Sample No. - 7054, Heat No. - B-71V-1,				J.O. No. : 57180

TEST RESULTS

Tensile Strength - N/mm ² (Psi)	592.00	(85862.50)
Yield Stress - N/mm ² (Psi)	314.00	(45541.93)
Elongation (%)	58.00	
R.A. (%)	76.29	
Hardness BHN	148	

Protocol Used : ASTM A-370



Checked By


Authorised Signatory
 (Q.M. / T.M.)

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CERTIFICATE OF CONFORMITY

Customer	Consignee	Customer order number 1975																						Allvac Order number 253820/0001
		Specification										Process												
ASTM B425 2010 UNS NO.8825 ASTM B564 2010 UNS NO.8825 NACE MR0175*2003																								

Description of material supplied: 70mm Diameter. Tolerance: K12 Length: 4550mm Weight: 1225 kg Annealed, Machined.
9 Bar

Cast no	C	Si	Mn	P	S	Cr	Mo	Ni	Al	B	Co	Cu	Nb	V	W	Ti	Zr	Ca	Mg	Se	Ta	Fe		Nb+Ta
B71W-1	.013	.37	.50	.002	.0001	21.67	3.28	38.81	.09							1.68						32.12		
Test No AB7879	Tensile Size	R _{p0.2%}	Rm	A	Z	Impact M/R	Hardness Test piece On Bars		Notch tensile		Creep / rupture tests Stress Temp Time		D=Discontinued F=Fractured		TPS=Total Plastic Strain									
T-transverse	inch	Ksi	Ksi	4D%	%	Charpy 2Mv	HBW10/3000	HB10/3000																
L-longitudinal	L(1)	.500 mm	41 Mpa	95 Mpa	55 Mpa	5D%	69	173																
	L(2)	10	287	652	52	72		173																

Hot Working Method : Rolled, Annealed, Pealed
Heat Treatment Chart/Ultrasonic Report.
MECH TEST PERFORMED FROM BAR PROLONGATION

Heat Treatment on Bars:
Anneal 980°C for 2H / Water Quenched
(Contact Thermocouple)
Heat Treatment Batch Number: 253820/0001
Furnace Calibration per API6A Annex P

Metallographic:
Macro Etch/Canada Etch
Satisfactory to ASTM A604 Class 1 – 4 = A at top & bottom positions.

Grain Size: E = ASTM 5.0, MR = ASTM 6.5, C = ASTM 6.0

Non Destructive Tests:
Ultrasonic: Satisfactory
The material has been furnished in accordance with the requirement.
Antimixing testing performed : OK

Certified that, unless stated above, the whole of the above-mentioned materials have been manufactured, tested and inspected in accordance with the terms of the contract/order applicable thereto and conform fully
To the standards/specifications quoted hereon. The quality control arrangements adopted in respect of these supplies have accorded with the following conditions: