



# SPAN FORGING PVT. LTD.

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

Mobile : 9999986702

9999986704

9810010535

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

E-mail : spanforging@rediffmail.com

Ref. No. ....

## TEST REPORT

Date.....

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

Report No.

846

D.O.T.

27/9/2011

D.O.R

Sample Description

DIA 55MM

Sample No.

6702

Heat No.

C29M-1

PART NAME

## RESULTS

Chemical Analysis  
By Spectrometer

Sample ID

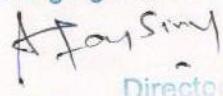
J.O No.

Element	%
Carbon	0.0175
Silicon	0.175
Sulphur	0.0014
Phosphorus	0.0139
Manganese	0.41
Nickel	41.61
Chromium	21.99
Molybdenum	3.4
Vanadium	0.0523
Copper	1.6
Tungsten	0
Cobalt	0.187
Aluminium	0.127
Titanium	1.12
Iron	29.16

Checked By

Autorised Signatory  
(Q.M / T.M )

For Span Forging Pvt. Ltd.

  
A. Jay Singh  
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.

## CERTIFICATE OF CONFORMITY

Customer	Consignee	CERTIFICATE OF CONFORMITY																										
		Customer order number		Allvac Order number																								

Description of material supplied:  
12 Bar  
55mm Diameter. Tolerance: K12 Length: 4540mm Weight: 1010 kg Annealed, Peeled.

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
C29M-1	.020	.34	.48	.002	.0001	21.89	3.06	38.34	.12			1.70				1.06						32.71	
Test No	Tensile Size	R <sub>p0.2%</sub>	Rm	A	Z	Impact M/R	Hardness Test piece On Bars		Notch tensile		Creep / rupture tests Stress Temp		Time		D=Discontinued F=Fractured								
AC2666	inch	Ksi	Ksi	4D%	%	Charpy 2Mv	HBW10,3000		HB10,3000		KSI		°C		Hours		TPS=Total Plastic Strain						
I-transverse	inch	Yield	Tensil																				
L-longitudinal	inch																						
L(1)	.500	41	93	59	69																		
L(2)	10	285	642	55	70																		

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

Heat Treatment on Bars:  
Anneal 980°C for 1H 50 Min./ Water Quenched.  
(Contact Thermocouple)  
Heat Treatment Batch Number: 248189/0003  
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 standard(s)/specifications quoted hereon. The quality control arrangements adopted in respect of these supplies have accorded with the following conditions:-

Signed ..... R. Fairhead (Mr)  
FOR AND ON BEHALF OF ALLVAC Ltd.

R. Fairhead (Mr)  
7 June, 2011