



SPAN FORGING PVT. LTD.

Mobile : 9999986702

9999986704

9810010535

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

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

E-mail : spanforging@rediffmail.com

TEST REPORT

Ref. No.

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.

Ajay 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 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.

CERTIFICATE OF CONFORMITY

Customer		Consignee		Customer order number 2175		Alvac Order number 248189-0003																	
				Specification ASTM B425 2010 UNS NO.8825 ASTM B564 2010 UNS NO.8825 NACE MR0175*2003		Process Vacuum Induction Melted / Electroslag Remelted.																	
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
C20M-1	Top	.020	.34	.48	.002	.0001	21.89	3.06	38.34	.12		1.70				1.06						32.71	
Test No	Tensile	R _{0.2} %	R _m	A	Z	Impact	Hardness	Notch	Creep / rupture	D=Discontinued													
AC2066	Size					M/R	Test piece On Bars	tensile	Stress	Temp	Time	F=Fractured											
T-transverse	inch	Ksi	Ksi	4D%	%	Charpy	HBW10/3000		KSI	°C	Hours	TPS=Total Plastic Strain											
L-longitudinal						2Mv	HB10/3000																
L(1)	.500	41	93	59	69		169																
L(2)	mm	Mpa	Mpa	5D%			169																
	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. Antinixing 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:-

Signed *R. Fairhead* Dated
 FOR AND ON BEHALF OF ALLVAC LTD.

R. Fairhead (Mr)
 7 June, 2011