



TC23-24-0933D-1

SPACE ALLOYS PVT. LTD.

Plot No. 223-228, Phase-3, Mahagujarat Ind. Estate, Moraiya, Ta. Sanand, Ahmedabad. Gujarat-382 213.
 Ph. 02717-298308 • Email : info@spacealloys.in • Website : www.spacealloy.com

Company Indetity Number :U28113GJ2010PTC061898

Material Test Certificate

Document No :	Revision No :	Effetive Date :	13/02/2011
J C Valvulas India Pvt Ltd 143, Developed Plots, 1st Main Road Perungudi Industrial Estate Perungudi	Tc No :	23-24/0933D/1	Date : 22/01/2024
	Challan No :	23-24/0933D	Date : 22/01/2024
	Specification :	ASTM:A-216/216 M- 2021 GR-WCB	
Chennai 600096 Tamilnadu	Chemical Comoposition :	%	
	Foundary Identification :	S	
	Melting Rout :	INDUCTION MELTING FURNACE	

Chemical Analysis

Property	C	Mn	S	P	Si	Cr	Ni	Mo	Cu	V	Rs-1	CE
Unit	%				%	%	%	%	%	%		
Min	-	-	-	-	-	-	-	-	-	-	-	-
Max	0.300	1.200	0.045	0.040	0.600	0.500	0.500	0.200	0.300	0.030	1.000	0.550
N1159	0.175	0.725	0.009	0.015	0.215	0.165	0.077	0.021	0.025	0.003	0.291	0.340
N1159	0.175	0.725	0.009	0.015	0.215	0.165	0.077	0.021	0.025	0.003	0.291	0.340
N1182	0.169	0.832	0.015	0.023	0.307	0.153	0.100	0.013	0.051	0.007	0.324	0.352

Mechanical Properties IMPACT TESTED AT -29° C

Property	Y.S.	U.T.S.	ELONG%	R.A.	BEND	HARD-1	HARD-2	HARD-3	I	II	III
Unit	MPA	MPA	in50mm	%	DEGREE	HBW	HBW	HBW	JOULES	JOULES	JOULES
Min	275.000	485.000	22.000	35.000	90.000	-	-	-	27.000	27.000	27.000
Max	-	655.000	-	-	-	237.000	237.000	237.000	-	-	-
N1159	306.900	520.500	27.000	66.800	OK	156.000	156.000	156.000	36.000	44.000	44.000
N1159	306.900	520.500	27.000	66.800	OK	156.000	156.000	156.000	36.000	44.000	44.000
N1182	273.800	520.300	29.600	62.900	OK	158.000	158.000	158.000	44.000	42.000	40.000

Heat Treatment : NORMALISED AT 940°C, 2 HOURS SOAKING AND AIR COOLED. & TEMPERED AT 640° C 4 HRS SOAKING THEN AIR COOLED.

J C Valvulas India Pvt. Ltd.

Chennai, Tamil Nadu, India
Verified & Accepted

C. Senthil



For SPACE ALLOYS PVT. LTD.

Lab Incharge

Quality Incharge



SPACE ALLOYS PVT. LTD.

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Dispatch Details

Heat No	Heat Date	Qty	Item Name & Drawing No.
N1182	03/01/2024	4	OA No : 23-24/0753 PO No : JCRM-2324000302 Dt: 09/11/2023 JCVBV150CL150BD6" X 150 # BV BODY SC (YSC-150-2515N REV. 10) YSC-150-2515N-01-30A-037
N1159	01/01/2024	1	JCVBV150CL150END6" X 150 # BV END SC (YSL-150-2515N REV. 08) YSL-150-2515N-01-30A-37
N1182	03/01/2024	3	JCVBV150CL150END6" X 150 # BV END SC (YSL-150-2515N REV. 08) YSL-150-2515N-01-30A-37
N1159	01/01/2024	1	JCVBV250X200CL150BDSCDN250X200X150 # BV BODY SC (YSC-250-2615 REV. 0) YSC-250-2615-29-30A-148
N1159	01/01/2024	1	JCVBV300X250CL150ENDDN300X250X150 # BV END SC (YSL-250-2615 REV. 0) YSL-250-2615-30A-148
Total :		10	


We Certify that the castings mentioned above confirm to specification :

ASTM:A-216/216 M- 2021 GR-WCB


Note : Visually Inspected and Accepted as per MSS SP55-2011 Certificate According to EN 10204.3.1


Remark :

VISUALLY INSPECTED AND ACCEPTED AS PER MSS SP 55 LEVEL-A TYPE 2 TO 12 (2011) (yield Determine by 0.2% offset method)
MDS NO :- JC-MDS-30A REV 4.
IMPACT TESTED AT -29° C. SP-037 & SP-148

JC Valvulas India Pvt. Ltd.
Chennai, Tamil Nadu, India
Verified & Accepted





Lab Incharge

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Quality Incharge



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MAGNETIC PARTICLE INSPECTION REPORT

Date : 20/01/2024

Test Certificate No. : MPT/23-24/039
Material : ASTM:A-216/216 M- 2021 GR-WCB
Surface : UNMachined & Hand ground
Checked Portion : 100% surface area
Client : J C Valvulas India Pvt Ltd
Component : As mentioned below
Equipment : K-Electronics, MT-200
Magnatisiton : Yoke Tchnique (Spacing Of Yoke 4)
Magnatic Current : AC
Magnatic Power : Magnaflux make 8A Red.
Sensitivity Checked By : ASTM Field Indicator
To Examination For : All
Reference Standard : ASTM E 709 (ASME B 16.34)

Sr. No.	Drawing No.	Heat No.	Qty	Result
1	6" X 150 # BV END SC (YSL-150-2515N-01)	N1159	1	NSD OK
2	DN250X200X150 # BV BODY SC (YSC-250-2615-29)	N1159	1	NSD OK
3	DN300X250X150 # BV END SC (YSL-250-2615)	N1159	1	NSD OK
4	6" X 150 # BV BODY SC (YSC-150-2515N-01)	N1182	4	NSD OK
5	6" X 150 # BV END SC (YSL-150-2515N-01)	N1182	3	NSD OK

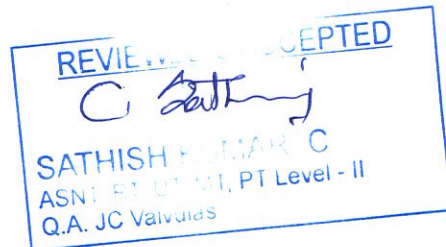
Total : 10

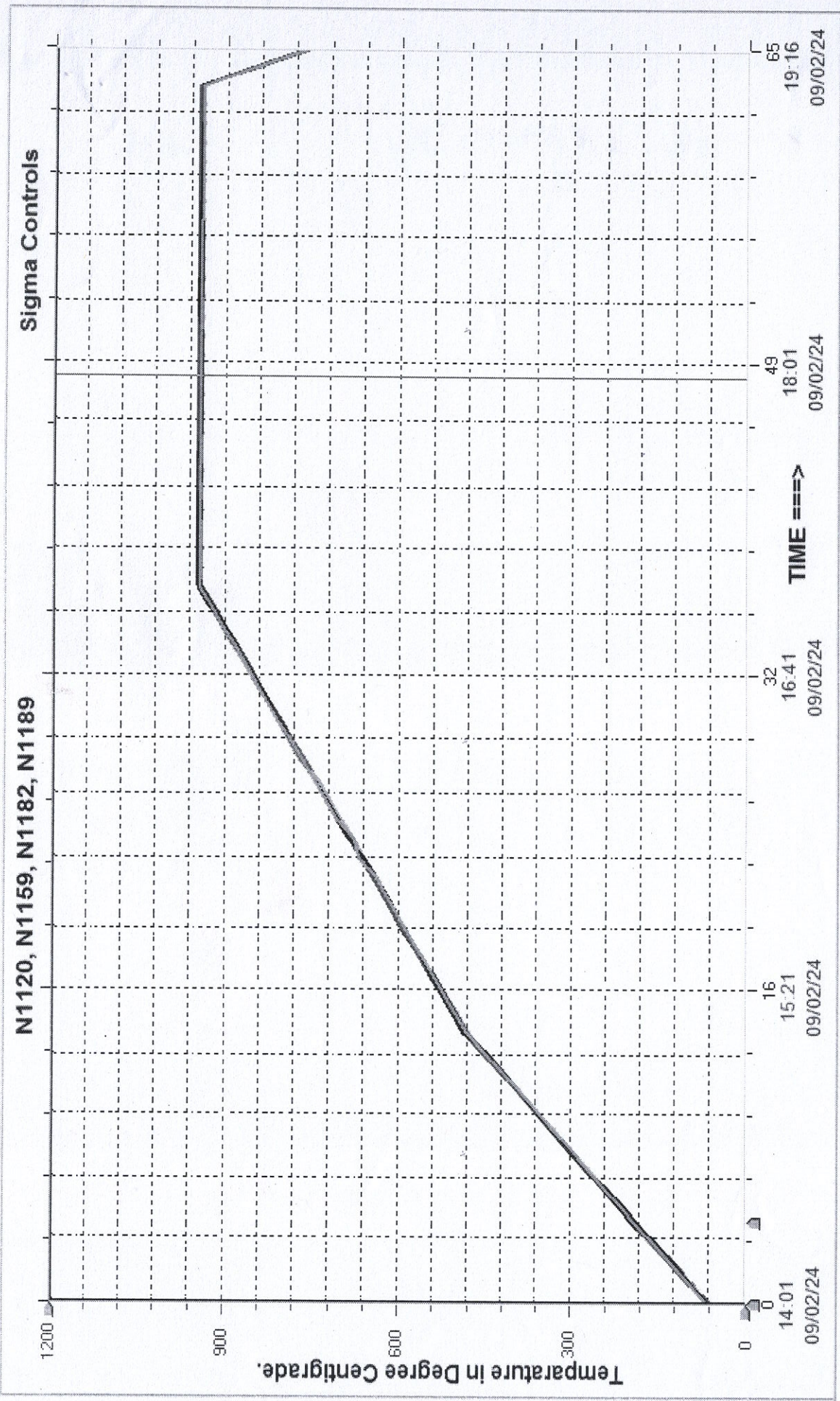
Observation : NO SURFACE DETECTION

Tested By : RAHUL GUPTA (UTE/22/11/22/02) For SPACE ALLOYS PVT. LTD.



Authorised Signatory



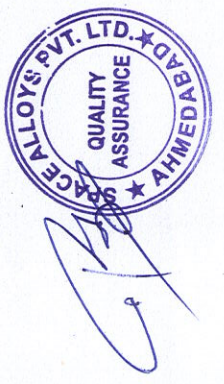


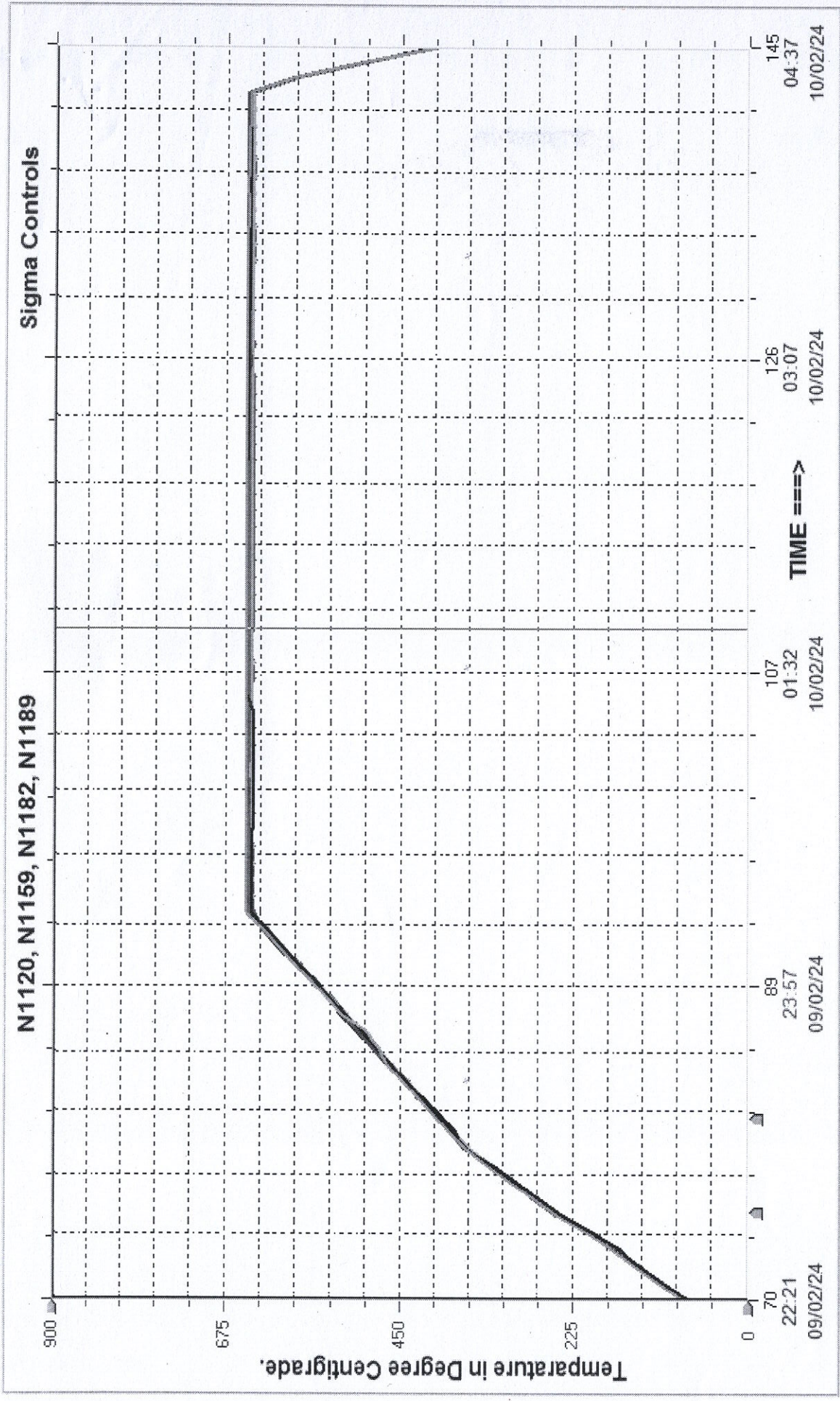
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HEATED UPTO 940° C 2 HRS SOAKING THEN WATER QUENCHING.

WCB

JC Valvulas India Pvt. Ltd.
Chennai, Tamil Nadu, India
Verified & Accepted
C. Betty





LEGEND : Ch 1, Ch 2, Ch 3, Ch 4, Ch 5, Ch 6, Ch 7, Ch 8, Ch 9, Cursor Data 01:42 640.0,643.0,646.0,642.0,648.0,649.0,648.0,10000.0,

TEMPERED AT 640° C 4 HRS SOAKING THEN AIR COOLED L.td.

Chennai, Tamil Nadu, India
Verified & Accepted

C. Sathya

WCB

