



Company Identity Number :

Material Test Certificate

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EN 10204-3.1 (2004)

Document No : F:QAS:07 Revision No : Effective Date : 25/01/2020

Tc No S-0168/1 Date : 31/05/2024 Challan No Date :

JC VALVULAS (INDIA) PVT. LTD.
143, DEVELOPED PLOTS, 1ST MAIN ROAD,
PURUNGUDI INDL ESTATE, PERUNGUDI,

Specification : ASTM: A216 - ED 21 GR.WCB
Foundry Identification : AGS Melting Process : Electric Induction Furnace

Condition of Supply Water Quenched at 920°C, soaked for 3 Hrs and Tempered at 680°C soaked for 6 Hrs & air cooled

Chemical Analysis

Heat No.	C	Mn	S	P	Si	Cr	Ni	Mo	Cu	V	CE
Unit	%	%	%	%	%	%	%	%	%	%	
Min	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max	0.300	1.000	0.035	0.035	0.600	0.500	0.500	0.200	0.300	0.030	0.500
R1146	0.188	0.791	0.018	0.021	0.488	0.092	0.042	0.019	0.021	0.006	0.347
R1147	0.188	0.806	0.015	0.019	0.469	0.068	0.042	0.018	0.015	0.009	0.345

Mechanical Properties

IMPACT TEST AT -29°C
SIZE: 10 X 10 X 55 (mm)

Heat No.	Y.S. 0.2%	U.T.S.	ELONG%	R.A.	BEND	HARD-I	HARD-II	HARD-III	I	II	III	Avg.
Unit	Mpa	Mpa	in50mm	%	DEGREE	BHN	BHN	BHN	JOULES	JOULES	JOULES	JOULES
Min	250.000	485.000	22.000	35.000	120.000	143.000	143.000	143.000	27.000	27.000	27.000	27.000
Max	0.000	655.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
R1146	283.580	541.890	26.400	46.990	OK	157.000	153.000	155.000	38.000	40.000	44.000	40.667
R1147	271.610	558.950	24.800	43.740	OK	153.000	151.000	155.000	42.000	46.000	40.000	42.667

Dispatch Details

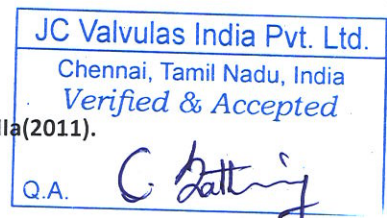
Heat No	Heat Date	Item Description	DrawingNo	Qty
		OA No : JCV2023687 PO No : JCRM-2324000462		
R1146	11/03/2024	12" X 600# 2PC FB BV BODY	YSC-300-2560N-01 REV.8	1
R1147	11/03/2024	12" X 600# 2PC FB BV END PIECE	YSL-300-2560N-01 REV.6	1
			Total :	2

Castings are fully killed and free from radioactive contamination.

Remarks / Observation :

- Y.S determined by 0.2% offset method at room temperature.
- Country of origin : INDIA.
- Surface Condition: Shot Blasted
- Visual Inspection of casting: Satisfactory according to drawing to MSS-SP-55 Type-II-XIIa(2011).
- Dimensional Inspection: Satisfactory according to drawing as per PO.
- Reference standard: ASTM A370, ASTM E 415, ASTM E 23, ASTM, E 18.
- Castings are identified with Heat No/Grade/Foundry logo/Size/Class/Customer logo.
- Certified that the above mention has been manufactured, tested & inspected in compliance with the requirements of the purchase order, confirm in all respect to the relevant specification and drawings.
- Radiography examination performed as per approved JC Procedure No.PS05/16 Rev.4 & Magnetic particle examination performed as per JC approved procedure No.PS05/18 Rev.4
- JC-MDS-30A Rev.5 complied.

Note : Additional requirement/Other requirement fulfilled



• We Certify that the castings mentioned above confirm to specification: ASTM: A216 - ED 21 GR.WCB

Plot No. 217, Road No. 2, Kathwada G.I.D.C., Odhav, Ahmedabad - 382 430. E-mail : aegissteelcast@gmail.com



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Foundary Identification : AGS Melting Process : Electric Induction Furnace		
JC. VALVULAS (INDIA) PVT. LTD.	Tc No : S-0168/1	Date : 31/05/2024
Issued agreement with TUV SUD industries service GmbH, QS Approved ACC.to PED, Annex-1 Para 4.3 by notified Body 0036 Certifiacion. DGR-0036-QS--966/2020/MUC-001		
Location : Ahmedabad		For AEGIS STEEL CAST
Date : 31/05/2024		Quality Assurance Head



JC Valvulas India Pvt. Ltd.
 Chennai, Tamil Nadu, India
Verified & Accepted
 Q.A. *O. Dattaj*