

Company Identity Number :

**Material Test Certificate**

Page 1 of 2

EN 10204-3.1 (2004)

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

Tc No      S-0106/1      Date : 15/05/2024      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
R1204	0.211	0.806	0.016	0.019	0.492	0.065	0.042	0.011	0.023	0.008	0.366
R1205	0.173	0.811	0.019	0.021	0.511	0.063	0.052	0.016	0.031	0.012	0.332

**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
R1204	271.070	530.920	26.800	46.680	OK	153.000	151.000	155.000	44.000	48.000	50.000	47.333
R1205	289.820	553.150	29.000	40.740	OK	153.000	151.000	155.000	42.000	52.000	54.000	49.333

**Dispatch Details**

Heat No	Heat Date	Item Description	DrawingNo	Qty
		OA No : JCV2023687      PO No : JCRM-2324000462		Po.Dt 01/03/2024
R1147	11/03/2024	12" X 600# 2PC FB BV BODY	YSC-300-2560N-01 REV.8	1
R1146	11/03/2024	12" X 600# 2PC FB BV END PIECE	YSL-300-2560N-01 REV.6	1
		OA No : JCV2023719      PO No : JCRM-2324000492		Po.Dt 20/03/2024
R1204	27/03/2024	12" X 600# 2PC FB BV BODY	YSC-300-2560N-01 REV.8	1
R1205	27/03/2024	12" X 600# 2PC FB BV BODY	YSC-300-2560N-01 REV.8	1
R1204	27/03/2024	12" X 600# 2PC FB BV END PIECE	YSL-300-2560N-01 REV.6	1
R1205	27/03/2024	12" X 600# 2PC FB BV END PIECE	YSL-300-2560N-01 REV.6	1
<b>Total :</b>				<b>6</b>

Castings are fully killed and free from radioactive contamination.

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

Company Indentity Number :

**Material Test Certificate**

Page 2 of 2

EN 10204-3.1 (2004)

Document No : F:QAS:07

Revision No :

Effective Date : 25/01/2020

Specification : ASTM: A216 - ED 21 GR.WCB

Foundry Identification : AGS

Melting Process : Electric Induction Furnace

JC VALVULAS (INDIA) PVT. LTD.

Tc No

: S-0106/1

Date : 15/05/2024

Remarks / Observation :

1. Y.S determined by 0.2% offset method at room temperature.
2. Country of origin : INDIA.
3. Surface Condition: Shot Blasted
4. Visual Inspection of casting: Satisfactory according to drawing to MSS-SP-55 Type-II-XIIa(2011).
5. Dimensional Inspection: Satisfactory according to drawing as per PO.
6. Reference standard: ASTM A370, ASTM E 415, ASTM E 23, ASTM, E 18.
7. Castings are identified with Heat No/Grade/Foundry logo/Size/Class/Customer logo.
8. 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.
9. JC-MDS-30A Rev.4 complied.

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

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

Date : 15/05/2024

For AEGIS STEEL CAST



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