wenzhou Shengzhong Petrochemical Equipment Co.,ltd

MILL TEST CERTIFICATE REPORT

NO.2888,Ruifeng Road(Taoshan Area),Taoshan Town,Ruian City Zhejiang Province,P.R.China

DATE:2025.1.5

CLIENT :JC fabrica de valvulas,s.a. ISO 9001 / approved CE 2014/68/EU / approved MAT. CERT. Nº: SZ2025010515

PO No.:	1146-10	PO DATE :	2024.10.21	Tensile Test bar	Dimension (mm)	Section (mm^2)	Length (mm)	Testing Temperature (℃)	Brinell Hardness	Load (Kg.f)	Location	Impact Test	Impact block size (mm)	Impact direction
Material Specification	EN 10213:2016 (DIN 17.245) Grade : GP240GH (1.0619)	Certificate type	DIN 50049 – EN 10204 – 3.1	Actual	10	122.7185	50	room temp	Actual	3000	surface	-29℃	10*10*50	transverse

COMPONENT	5161501002V1		
DWG/PATERN N°	0516150ML Rev.4		
NAME:COVER	DN-150 PN-16		
Heat Treatment	Temp(℃)	Time (h)	Cooling Method
Normalizing	900℃	2.5-3h	air cooling

Heat No.	Qty.				sample	C	Mn	S	P	Si	Cr	Ni	Mo	Cu	V			YS	UTS	EL	ROA	Hardness		Energy value (J) min 27J			
					Ingot casting	%												(Mpa)	(Mpa)	(%)	(%)	(HBW)	AVG.	No. 1	No. 2	No. 3	T
				Min		0.18	0.50											240	420	22							(℃)
				Max		0.23	1.20	0.020	0.030	0.60	0.30	0.40	0.12	0.30	0.03				600								
4L049	1					0.198	0.997	0.009	0.016	0.486	0.035	0.013	0.003	0.012	0.001			377	572	29.5	64	172-172-171	172	46	47	48	−29
4L051	4					0.207	0.910	0.006	0.014	0.453	0.040	0.016	0.004	0.024	0.001			364	544	32	62	171-171-170	171	42	45	52	−29
4L053	8					0.203	1.040	0.009	0.016	0.470	0.086	0.021	0.004	0.054	0.001			374	556	29	64	173-173-172	173	41	46	50	−29
4L059	5					0.197	0.862	0.010	0.017	0.472	0.051	0.024	0.007	0.047	0.003			384	571	28	47	167-167-168	167	42	45	49	−29
4L069	3					0.207	0.965	0.008	0.015	0.516	0.030	0.012	0.003	0.012	0.001			359	571	31	61	171-170-170	170	40	43	48	−29
4L071	8					0.203	0.989	0.007	0.014	0.489	0.017	0.009	0.001	0.009	0.001			366	546	28	60	171-171-170	171	38	44	49	−29
4L075	4					0.221	1.005	0.013	0.017	0.514	0.026	0.009	0.001	0.015	0.001			368	532	27	56	171-169-170	170	44	45	46	−29
4L077	2					0.229	0.974	0.009	0.016	0.510	0.031	0.009	0.002	0.014	0.001			367	559	28.5	62	168-168-167	168	42	42	48	−29
4L149	1					0.204	0.945	0.007	0.018	0.487	0.035	0.008	0.004	0.024	0.001			362	560	30.5	64	169-168-169	169	39	41	52	−29

1.-Visual inspection:accepted according to PSO4/I1 Rev 9.Other information:no major repairs carried out.
2.-We certify that the above material has been manufactured and processed according to requirement of the above P.O.
3-These supply materials are in accordance with NACE MR 01-75/ISO 15156 and NACE MR 01-03/ISO 17945.

温州盛中石化装备有限公司 质 量 部

Authorised Inspector's Name, Signature & Date: 黄据科 2025.1.5 Engineer Q.A's Name, Signature & Date: 黄晓清 2025.1.5 Laboratory Incharge's name , Signature & Date: 胡兴廷 2025.1.5

HUANG JUKE HUANG XIAO QING HU XING TING