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:2024.10.28

CLIENT :JC fabrica de valvulas,s.a. ISO 9001 / approved CE 2014/68/EU / approved MAT. CERT. Nº: SZ2024102817

PO No.:	1146-9	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	5161501001V1
DWG/PATERN N°	0516150MC Rev.6
NAME:BODY DN-150 PN-16	

Heat Treatment	Temp(℃)	Time (h)	Cooling Method
Normalizing	900℃	2.5-3h	air cooling

Chemical Composition

Heat No.	Qty.				sample	C	Mn	S	P	Si	Cr	Ni	Mo	Cu	V		
				Min	Ingot casting	0.18	0.50										
				Max		0.23	1.20	0.020	0.030	0.60	0.30	0.40	0.12	0.30	0.03		
4F022	5					0.195	0.753	0.007	0.014	0.449	0.036	0.014	0.003	0.021	0.001		
4E042	5					0.193	1.002	0.006	0.014	0.488	0.034	0.009	0.005	0.012	0.001		
4E044	4					0.197	1.049	0.007	0.014	0.482	0.040	0.014	0.005	0.011	0.001		
4E046	4					0.201	0.910	0.006	0.017	0.451	0.037	0.010	0.004	0.013	0.001		
4E048	5					0.195	0.930	0.009	0.016	0.489	0.021	0.008	0.002	0.016	0.001		
4E050	6					0.208	0.888	0.008	0.013	0.472	0.029	0.010	0.003	0.014	0.001		

Mechanical Properties / Impact Test

Heat No.	YS (Mpa)	UTS (Mpa)	EL (%)	ROA (%)	Hardness (HBW)	Hardness AVG.	Energy value (J) min 27J No. 1	No. 2	No. 3	T (℃)
	240	420	22							
		600								
4F022	365	562	31	62	172-173-171	172	40	44	48	-29
4E042	374	550	30.5	64	170-171-170	170	44	45	49	-29
4E044	350	545	28	61	174-174-175	174	41	42	46	-29
4E046	365	561	29	58	169-167-168	168	42	46	47	-29
4E048	353	538	32	56	170-171-170	170	38	43	48	-29
4E050	375	570	31	58	170-170-171	170	39	41	45	-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: 黄振科 2024/10/29 Engineer Q.A's Name, Signature & Date: 黄晓清 2024/10/29 Laboratory Incharge's name , Signature & Date: 胡兴廷 2024/10/29

HUANG JU KE HUANG XIAO QING HU XING TING