



**ZHEJIANG SHIDAI CASTING CO., LTD.**  
**MILL TEST CERTIFICATE REPORT**  
 address: JinQiao Industrial Area, TaoShan Town, Rui'an City, P.R.China.

DATE:2025.03.04

CLIENT :JC fabrica de valvulas,s.a.				ISO 9001 / approved				CE 2014/68/EU / approved				MAT. CERT. N°: SD25030407-C70313														
PO No.:	1664			PO DATE :	2024.12.04			Tensile Test bar	Dimension (mm)	Section (mm <sup>2</sup> )	Length (mm)	Testing Temperature (°C)	Brinell Hardness	Load (Kg.f)	Location	Impact Test	Impact block size (mm)	Impact direction								
Material Specification	EN10213:2007+AI:2016 1.4408			Certificate type	DIN 50049 – EN 10204 – 3.1			Actual	12.50	122.718463	50	room temp	Actual	3000	surface	-50°C	10*10*50	transverse								
COMPONENT					Chemical Composition										Mechanical Properties					Impact Test						
DWG/PATERN N°	0540040C				sample	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	-	-	-	UTS (Rm)	YS (Rp1.0)	EL (A)	ROA (Z)	Hardness	Energy value (J)			
NAME:	BODY																									
Heat Treatment	Temp(°C)	Time (h)	Cooling Method		Ingot casting	%										(Mpa)	(Mpa)	(%)	(%)	(HBW)	No. 1	No. 2	No. 3	T		
Actual	Solution 1080	2	Water cooling			-	-	-	-	-	18.0	9.00	2.00	-	-	-	-	400	210	30	-	-	60	60	60	(°C)
Heat No.	Qty.	Size:	Class:	Min Max		0.07	1.50	1.50	0.040	0.030	21.0	12.0	2.50	0.50	-	-	-	640	-	-	-	237	-	-	-	-
4L22	165				0.042	0.71	1.09	0.030	0.002	18.21	9.15	2.07	0.23	-	-	-	555	260	56	-	161	140	147	143	-50	



1.-Visual inspection: accepted according to MSS-SP 55.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.

Authorised Inspector's Name, Signature & Date: 黄海金 Huang haijin 2025.03.04      Engineer Q.A's Name, Signature & Date: 李勇 Li yong 2025.03.04      Laboratory Incharge's name, Signature & Date: 林军 Lin jun 2025.03.04