MATERIAL TEST CERTIFICATE

EN10204:2004 3.1

YONGJIA TONG BALL Valve Co., Ltd.

Address: Dongou Industrial Zone, Oubei Street,Yongjia County, Zhejiang Province(1st Floor Plant ofWenzhou Huajiang Industrial Co., Ltd)

Purchaser:	JC Fabrica de Valvulas, s.a.			**Material Specification:**		ASTM A182-2025 F51						**NO:** R25120231	
Order No.:	5212											**Date:**2026-01-09	
Heat No.	**Chemical Composition (%)**												
		C	Mn	Si	S	P	Cr	Mo	Ni	N	PREN	Ferrite	
	Specification	≤0.03	≤2.00	≤1.00	≤0.02	≤0.03	21.0-23.0	2.50-3.50	4.50-6.50	0.08-0.20	31-38	35-65	
25214120989	Actual	0.028	1.120	0.51	0.002	0.027	22.37	3.15	5.12	0.1641	35.39	51	

Mechanical Property Test

Tensile Test						Impact Test						Hardness			
Test Temp.		Tensile σb (Mpa)	Yield σs 0.2 (Mpa)	Elongation (%)	Reduction of Area (%)	Temp. (℃)	Specimen Size	Akv (J)(minimum)				(HB)(max)			
												≤267			
Ambient Temp.	STD	Min620	Min450	Min25	Min45			(1)	(2)	(3)		(1)	(2)	(3)	
	Actual	723	492	55	83							201	205	202	
								Avg				Avg	202.67		

H.TBatch No.: BD0225012201

Heat No.	Other Test			Visual and Dimensional	Heat Treatment	Remarks
	PT	UT	-			
25214120989	Accepted	Accepted	-	Accepted	Solution 1040℃ 2h Water Cold	-

PO.SR.No.	Drawing No.	Item Description	Qty	Heat No.
JCB253455-3000	2550EG025B REV1	BALL 56.83/46*25*37.15 A182 F51	6	25214120989

YONGJIA TONG BALL Valve Co., Ltd.
Quality auditor:

We hereby certify that the parts listed above are manufactured and inspected, tested in accordance with the requirements of material specification ASTM A182-2025 F51 the material conforms to MR0175 for hardness.