


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 of Wenzhou Huajiang Industrial Co., Ltd)

Purchaser:	JC Fabrica de Valvulas, s.a.	Material Specification:	ASTM A182-2025 F51	NO: R25120232									
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	
241120AE02	Actual	0.014	0.981	0.519	0.0013	0.0268	22.74	3.02	4.77	0.1617	35.29	53	
H.T Batch No.	Mechanical Property Test												
	Tensile Test						Impact Test			Hardness			
	Test Temp.		Tensile σ _b (Mpa)	Yield σ _s 0.2 (Mpa)	Elongation (%)	Reduction of Area (%)	Temp. (°C)	Specimen Size	Ak _v (J)(minimum)			(HB)(max)	
	Ambient Temp.	STD	Min620	Min450	Min25	Min45						≤267	
		Actual	720	498	52	81			(1)	(2)	(3)	(1)	(2)
BD0225012201											206	218	210
	Avg										Avg	211.33	
Heat No.	Other Test			Visual and Dimensional			Heat Treatment			Remarks			
	PT	UT	-	Accepted			Solution 1040°C 2h Water Cold			-			
241120AE02	Accepted	Accepted	-										
PO.SR.No.	Drawing No.	Item Description				Qty	Heat No.	YONGJIA TONG BALL Valve Co., Ltd. Quality auditor: 					
JCB253455-4000	2550EG025AM REV1	SEAT 42*25*22 A182 F51				12	241120AE02						

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.