

ZHEJIANG BOSHI VALVE TECHNOLOGY Co.,Ltd

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材料质量证明书 Material Test Certificate
(EN 102043.1.)

DIN 50049- EN 10204 - 3.1
MAT. CERT. N° . BS2025121906
DATE : 2025.12.19

供应商名称 Supplier 浙江博时阀门科技有限公司 zhejiang boshi valve technology Co., LTD		客户 Customer 何塞阀门制造(上海)有限公司 JC Manufacturing Group(Shanghai)Co., Ltd.			材质 Material F316/F316L		交货状态 delivery state 已加工 Has been processed	
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ISO 9001 / approved CLIENT: JC		P.O. N° : DATE : 2025.11.05			SPECIFICATION/ MATERIAL ASTM A182 Gr. F316/F316L ED. 22		产品类别 Product Catagory 锻件球体 Forging	
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采购订单号 PO NO	炉号 HT#	零件名称 Part Name	规格 Spec	数量 Qty	化学成分 Chemical Composition (%)										机械性能 MECHANICAL PROPERTIES (≥)						
					化学成分标准	C	Mn	Si	P	S	Mo	Cr	Ni	N	T.S. (Mpa)	Y.P. (Ma)	EL. (%)	R.A (%)	Hardness (HB)	试样尺寸 Specimen size	
1	BS4-5111	球体 BALL	054002 5BQ	500	≤0.03	≤2.00	≤1.00	≤0.045	≤0.030	2.0-3.0	16-18	10-14	0-0.1	≥515	≥205	≥30	≥50	≤237	200mm*20mm		

热处理 Heat Treatment	处理方法 Method		炉子类型 Furnace Type	升温温度摄氏度 Temp. (°C)	保温时间, 小时 Holding Time, Hours	冷却方法 Cooling method	方法 Method	报告编号 Refer.	结论 Result
		正火 Normalize						目测 VT	
	淬火 Quench						着色 PT		
	回火 Temper						磁粉 MT		
✓	固溶 Solution	resistance furnace	1050°C	3小时 (3 hours)	水冷 (water cooling)		射线 RT		
							超声 UT		

REMARKS
 According the material meets customer requirements or specification PS04/I1 Rev.9. According material meets material standard. According material meets requirements of NACE MRO175/103. Some other special requirement.

检验员 Authorised Inspector: yu ping 日期 Date 2025.12.19
 质量工程师 Engineer Q.A zhou bo
 负责人 Laboratory Incharge zhang wang 张旺



注：产品化学成分数值是铸件试块测试数值。 / The chemical composition of the product is the test value of the casting block.