

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° . BS2025022506
DATE : 2025. 2. 25

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		P. O. N° :			SPECIFICATION/ MATERIAL ASTM A182 Gr. F316/F316L ED. 22		产品类别 Product Category		锻件球体 Froging	
CLIENT: JC		DATE : 2025. 02. 25								

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			
	BS4-4121	球体 BALL	0540025B Q	150	≤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
	BS4-441	球体 BALL	0540025B Q	3	0.021	0.68	0.41	0.036	0.0012	2.021	16.520	10.02	0.028					586	263	73	71	173	
					0.023	0.62	0.38	0.029	0.0015	2.032	16.380	10.01	0.05					578	265	72	75	172	

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	淬火 Quench	回火 Temper	固溶 Solution	resistance furnace	1050°C	3小时 (3 hours)	水冷 (water cooling)	目视 VT	着色 PI	磁粉 MT	射线 RT	超声 UT

REMARKS
According to 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 余平
日期 Date 2025. 02. 25
质量工程师 Engineer Q. A zhou bo 张波
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.