



YONGJIA BALLKING VALVE CO.,LTD.





Available for:

- Technical consultation
- Custom drawings review
- Bulk order discount





Sasha Dai
Sales Manager |
Ballking Valve CO.,LTD.

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Sasha@ballkingvalve.com






Why partners choose us

- ✓ VALVE BALLS High-tech Enterprise
- ✓ ISO-9001certified
- ✓ Custom solutions
- ✓ The industry advantage price of manufacturing factory

Our advantages

- ★15+ years OEM/ODM experience
- ★0.2μm precision tolerance control
- ★On-site metallurgical testing lab

Available for

- Technical consultation
- Custom drawings review
- Bulk order discount

Yongjia Ballking Valve CO., Ltd.

Product production process table

Order	Process content	monitoring point	Work records
1	The purchasing department selects the right supplier to purchase the rough material		Procurement order form
2	The rough material enters the company	surface	Incoming inspection records
		Product identification (material, furnace number)	
		Check product size, document and record	
		Chemical composition test/reinspection	
		Check the quality certification documents provided by the supplier	
3	After the products are put into storage, the workshop takes the materials for rough processing	The operator checks the rough material, operation instructions and technical requirements	Inventory order, material receipt order and process card
4	Conduct ultrasonic testing	Identification tracking,	examining re-port
5	Heat treat the pr-oduct	Check the process and the execution of the process	Curves, process cards
6	Mechanical testing, metallographic testing and intergranular corrosion testing	Tensile strength, yield strength, elongation, shrinkage, impact, hardness, etc	examining re-port
7	The product is officially produced and processed	Process inspection, focus on process size, implementation of process discipline, product identification tracking inspection (material, furnace number)	Process inspection records
8	Surface treatment (electroplating, spraying)	Surface hardness, chemical composition and coating thickness	Issuing a test report
9	Packaging and shi-pping	Finished product inspection, quality assurance documents.	Inspection record quality assurance document delivery order

Note: The premise of the subsequent process is that the previous

authorized strength : 刘伯臣

examine and verify :

刘伯臣



Türkçe



Tiếng Việt



Nederlands



हिन्दी



日本語



Deutsch



بالعربية



Français



한국어



היברית



Português



Español



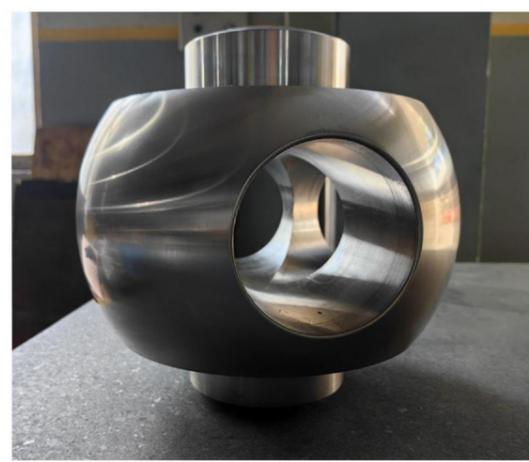
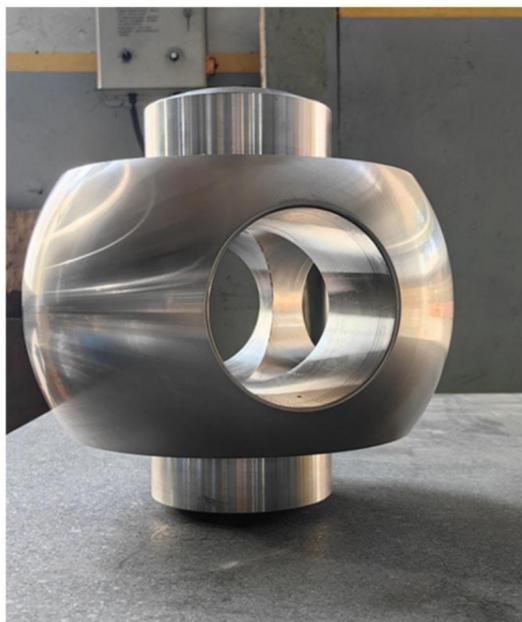
Indonesian



नेपाली



Italiano



WHY CHOOSE US



FACTORY DIRECT SUPPLY

Direct source, omit intermediate links. Show the most real product process details in the eyes of customers, and every consumer can enjoy the seamless connection from the production line to your hands.



STRICT QUALITY INSPECTION

Multiple production processes are strictly controlled, and there are also dedicated personnel conducting rigorous quality inspections



SELECTED MATERIALS

Made of high-quality materials, it is sturdy and reliable, providing peace of mind when in use



EXQUISITE WORKMANSHIP

Precision CNC machine tools feature high dimensional accuracy and exquisite appearance, meeting your requirements



PROFESSIONAL SERVICES

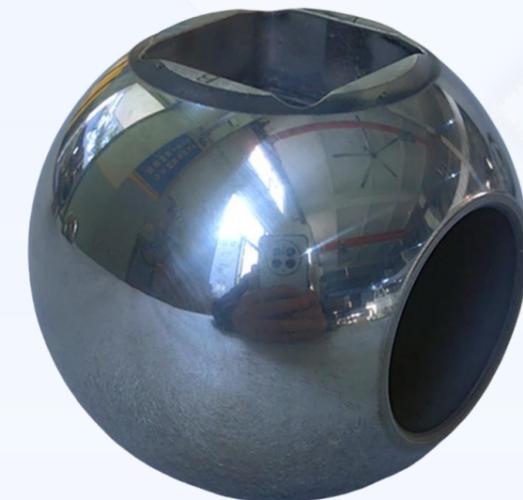
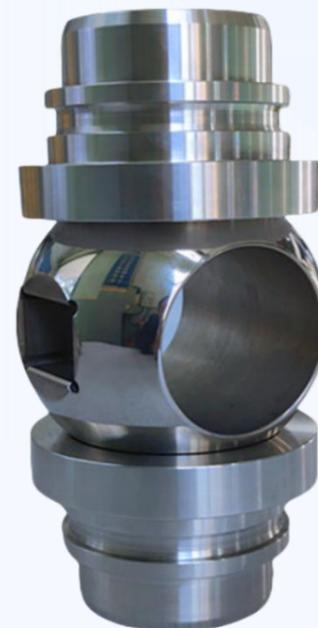
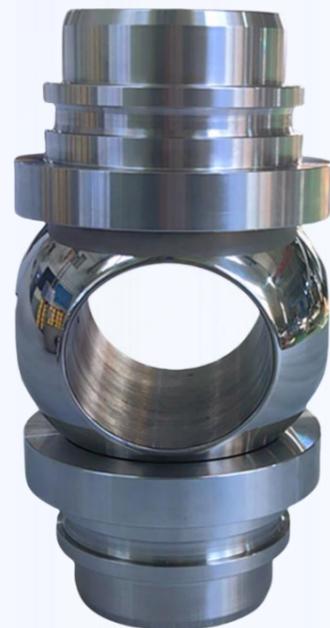
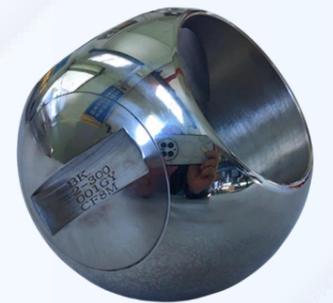
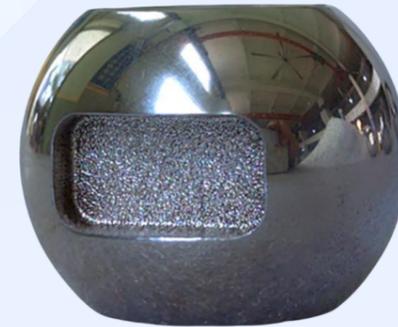
Real-time interactive monitoring from order placement, production to delivery. We support OEM/ODM and other customizations, etc. Provide customers with timely, efficient and professional service support.



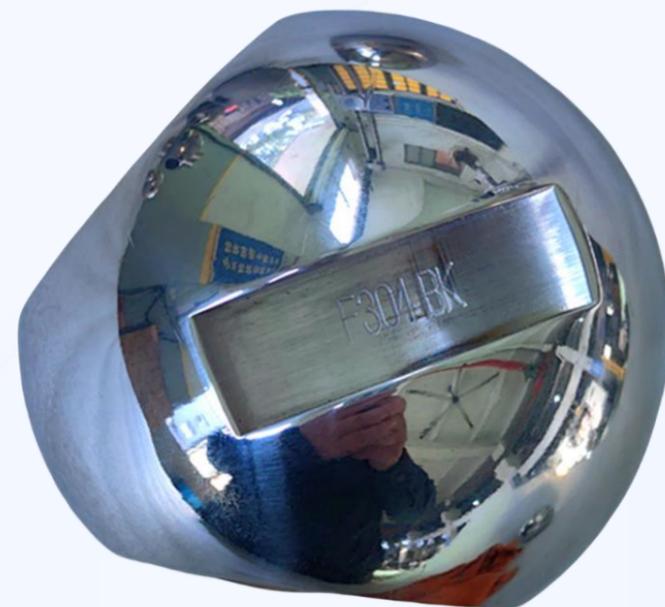
THE SUPPLY IS ABUNDANT

Comprehensive manufacturer of valve core ball products. The source factory integrating R&D, manufacturing and sales is powerful and exports to many countries

Product Display









检测服务

阀门检测

阀门逸散性型式试验

采用标准:

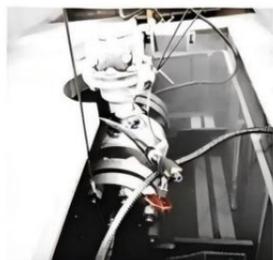
- API 624-2014
- API 622-2011
- API 641-2016
- ISO 15848-1:2015
- ISO 15848-2:2015
- MESC SPE 77/300
- MESC SPE 77/312
- GB/T 26481-2011



阀门低温试验

采用标准:

- BS 6364 :1984(R2015)
- ISO 28921-1: 2013
- ISO 28921-2: 2015
- MSS SP-134-2012
- GB/T 24925-2019
- MESC SPE 77/200



阀门水压试验及高压气体试验

采用标准:

- API 598-2016
- API 6D-2014
- ISO 5208-2015
- EN 12266-1:2012
- GB/T 26480-2011
- GB/T 13927-2008



硫化氢腐蚀试验

硫化物应力腐蚀(SSC试验)

采用标准:

- GB/T 4157-2006
- NACE TM0177-2016
- ASTM G39-99
- ISO 7539-2:1989
- GB/T 15970.2-2000



抗氢致开裂试验(HIC)

采用标准:

- GB/T 8650-2015
- NACE TM0284-2016
- 结果评价: 裂纹敏感率SCR
- 裂纹长度率CLR
- 裂纹厚度率CTR



腐蚀试验

- 不锈钢晶间腐蚀(ASTM A262、GB/T 4334)
- 镍基合金晶间腐蚀(ASTM G28)
- 点腐蚀(ASTM G48、GB/T 17897)
- 缝隙腐蚀(ASTM G48)
- 均匀腐蚀(ASTM G111、JB/T 7901)
- SO2气体腐蚀
- CO2气体腐蚀
- 混合气体腐蚀
- 模拟工况腐蚀
- 高温高压腐蚀试验
- 氯化物应力腐蚀
- 挂片腐蚀
- 冲刷试验



理化分析

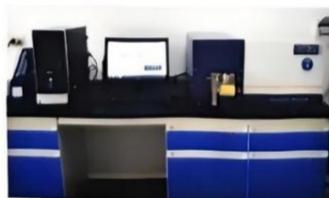
力学性能

- 室温拉伸
- 弯曲
- 压缩
- 室温/低温冲击
- 布氏/洛氏/维氏/显微维氏硬度



成分分析

- 铁基材料光谱分析
- 铜基合金光谱分析
- 镍基合金光谱分析



金相检测

- 组织及低倍组织
- 铁素体含量
- 非金属夹杂
- 平均晶粒度
- 渗碳淬火硬化层深度
- 脱碳层深度
- 金属和氧化物层厚度



HCTPI 海川检验

HAICHUAN INSPECTION



专业·专注·高效

温州海川检验有限公司
WENZHOU HAICHUAN INSPECTION CO., LTD.



试验报告

Test Report

产品名称：试棒
PRODUCT: Test Bar

客户单位：永嘉博康阀门有限公司
CLIENT: Yongjia Ballking Valve Co., Ltd.

生产单位：/
MANUFACTURER: /

试验项目：抗氢致开裂（HIC）试验
TEST ITEM: Hydrogen Induced Cracking Test


 合肥通用机械研究院特种设备检验站有限公司
SPECIAL EQUIPMENT INSPECTION STATION OF
HEFEI GENERAL MACHINERY RESEARCH INSTITUTE CO., LTD.



№: 2022-GMRI-BKFM-FS-002

试验报告

Test Report

产品名称：试棒
PRODUCT: Test Bar

客户单位：永嘉博康阀门有限公司
CLIENT: Yongjia Ballking Valve Co., Ltd.

生产单位：/
MANUFACTURER: /

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TEST ITEM: Hydrogen Induced Cracking Test


 合肥通用机械研究院特种设备检验站有限公司
SPECIAL EQUIPMENT INSPECTION STATION OF
HEFEI GENERAL MACHINERY RESEARCH INSTITUTE CO., LTD.



005-G/0

注意事 项

DECLARATION

- 1、报告无试验报告专用章或检验单位公章无效。
The report is invalid in case of no special seal for test report or no official seal of the inspection unit.
- 2、报告无试验、审核、批准人签章无效。
The report is invalid in case of no signatures of test assistant, reviewer and approver.
- 3、报告涂改无效。
The report is invalid in case of sign of erasure.
- 4、对试验报告若有异议，请于收到报告之日起十五日内向检验单位提出。
If any objections to this test report occur, please submit to the inspection unit within 15 days upon receipt of this report.
- 5、一般情况，委托试验仅对来样负责。
Generally, the test unit only bears responsibility for the received samples in case of commissioned inspection.
- 6、本试验室对出具的试验结果负责。未经本试验室书面同意不得部分地复制本报告。
The laboratory is responsible for the inspection results. This test report shall not be duplicated without prior written approval of the laboratory.
- 7、如有异议，以报告中文内容为准。
In the event of any dispute of this report, the Chinese language version shall control.

合肥通用机械研究院特种设备检验站有限公司

Special Equipment Inspection Station of Hefei General Machinery Research Institute Co., Ltd.

地址：安徽省合肥市长江西路 888 号

Address: No.888, West Changjiang Road, Hefei, Anhui, P.R. China

电话：(0551) 65311289 Phone: (0551) 65311289

传真：(0551) 65313745 Fax: (0551) 65313745

邮编：230031 PC: 230031

TJ17.5-005-G/0 合肥通用机械研究院特种设备检验站有限公司试验报告

SPECIAL EQUIPMENT INSPECTION STATION OF HEFEI GENERAL MACHINERY RESEARCH INSTITUTE CO., LTD. TEST REPORT

HGMRI-BKFM-FS-002

第 2 页 共 3 页

客户：
Appendix:

客户单位 Client	永嘉博康阀门有限公司 Yongjia Ballking Valve Co., Ltd.		
试样信息 Information of the samples			
样品编号 Samples No.	产品名称 Product	原样品编号 Serial No. of original sample	材质 Material
20221014-BKFM-HIC-11~13	试棒 Test bar	1	ASTM A182 F316L
	炉/批号 Batch No.	备注 Remarks	
	BKCJ025	/	

试验信息 Test information						
试验温度 Temperature	试验溶液 Test solution	pH			脱脂方式 Degreasing method	试验时间 Test duration
		初始溶液 Initial	试验开始 Start	试验结束 Finish		
25℃	溶液 A Solution A	2.7	3.0	3.6	脱脂剂 Degreasing agent	96 h

试验结果 Test results							
样品编号 Samples No.	检测面 Detected face	CLR (%)		CTR (%)		CSR (%)	
		实测值 Measured value	平均值 Average	实测值 Measured value	平均值 Average	实测值 Measured value	平均值 Average
20221014-BKFM-HIC-11	111	0	0	0	0	0	0
	112	0		0			
	113	0		0			
20221014-BKFM-HIC-12	121	0	0	0	0	0	0
	122	0		0			
	123	0		0			
20221014-BKFM-HIC-13	131	0	0	0	0	0	0
	132	0		0			
	133	0		0			
每组试样的平均值 Average for all samples		0		0		0	

委托方的验收要求：CLR≤5%，CTR≤1.5%，CSR≤0.5%。

Acceptance requirements of the client: CLR≤5%, CTR≤1.5%, CSR≤0.5%.



合肥通用机械研究院特种设备检验站有限公司

试验报告

Special Equipment Inspection Station of Hefei General Machinery Research Institute Co., Ltd. Test Report

No 2022-GMRI-BKFM-FS-002

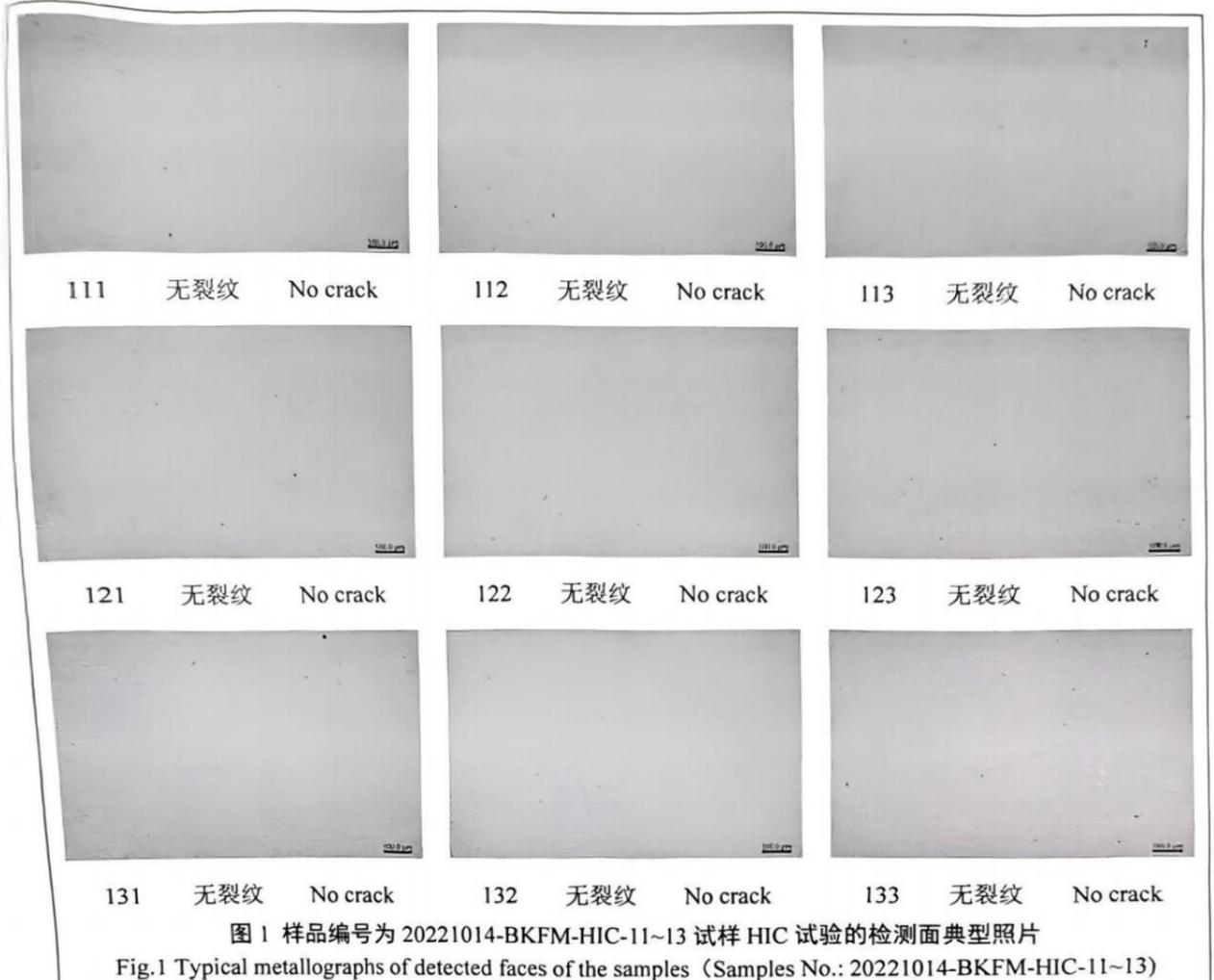
产品名称 Product	试棒 Test bar		型号规格 Model/specification	/
			商标 Trademark	/
客户单位 Client	永嘉博康阀门有限公司 Yongjia Ballking Valve Co., Ltd.		试验类型 Test type	抗氢致开裂试验 Hydrogen induced cracking test
生产单位 Manufacturer	/		样品等级 Grade of sample	/
生产单位地址 Address	/		抽 Sampling 样日期 Date	/
抽样地点 Sampling location	/		送 Sending	2022.10.14
样品数量 Quantity of samples	1 组 One set	抽样基数 Base number of sampling	抽 Sampling 样者 Person	/
		/	送 Sending	李达 Li Da
原样品编号 Serial number of original sample	1		样品编号 Sample number	20221014-BKFM-HIC-11~13
试验依据 Test basis	NACE TM0284-2016 Evaluation of Pipeline and Pressure Vessel Steels for Resistance to Hydrogen-Induced Cracking			
试验项目 Test items	抗氢致开裂试验 Hydrogen induced cracking test			
试验结论 Test conclusion	试验结果见附件。 Test results refer to appendix. 签发日期: 2022年11月7日 Date of issue:			
备注 Remarks	1、产品名称、原样品编号、材质、炉/批号和试验技术条件由委托方提供。 1. Product, serial number of original sample, material, batch No. and technical requirements are provided by the client. 2、试验方法及标准由委托方指定。 2. Test method and standard are required by the client. 3、试验由江苏隐石检验检测有限公司委托, 报告出具给永嘉博康阀门有限公司。 3. The test was commissioned by Jiangsu Yinshi Inspection and Testing Co., Ltd., and the report was issued to Yongjia Ballking Valve Co., Ltd.			

批准: [Signature]
Approver:

审核: [Signature]
Reviewer:

试验: [Signature]
Test assistant:

-----本报告主体内容结束线-----
-----End of the Text Body of the Report-----



HIC 裂纹信息 Information of HIC cracks					
检测面 Detected face	裂纹长度(a) Crack length (μm)	裂纹宽度(b) Crack thickness (μm)	检测面 Detected face	裂纹长度(a) Crack length (μm)	裂纹宽度(b) Crack thickness (μm)
/	/	/	/	/	/

-----本附件主体内容结束线-----
-----End of the Main Body of Appendix-----



注意事项

DECLARATION

- 1、报告无试验报告专用章或检验单位公章无效。
The report is invalid in case of no special seal for test report or no official seal of the inspection unit.
- 2、报告无试验、审核、批准人签章无效。
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- 3、报告涂改无效。
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- 4、对试验报告若有异议，请于收到报告之日起十五日内向检验单位提出。
If any objections to this test report occur, please submit to the inspection unit within 15 days upon receipt of this report.
- 5、一般情况，委托试验仅对来样负责。
Generally, the test unit only bears responsibility for the received samples in case of commissioned inspection.
- 6、本试验室对出具的试验结果负责。未经本试验室书面同意不得部分地复制本报告。
The laboratory is responsible for the inspection results. This test report shall not be duplicated without prior written approval of the laboratory.
- 7、如有异议，以报告中文内容为准。
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合肥通用机械研究院特种设备检验站有限公司
Special Equipment Inspection Station of Hefei General Machinery Research Institute Co., Ltd.

地址：安徽省合肥市长江西路 888 号

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传真：(0551) 65313745 Fax: (0551) 65313745

邮编：230031 PC: 230031

合肥通用机械研究院特种设备检验站有限公司
试验报告

Special Equipment Inspection Station of Hefei General Machinery Research Institute Co., Ltd. Test Report

No 2022-GMRI-BKFM-FS-002

产品名称 Product	试棒 Test bar		型号规格 Model/specification	/	
			商标 Trademark	/	
客户单位 Client	永嘉博康阀门有限公司 Yongjia Ballking Valve Co., Ltd.		试验类型 Test type	抗氢致开裂试验 Hydrogen induced cracking test	
生产单位 Manufacturer	/		样品等级 Grade of sample	/	
生产单位地址 Address	/		抽 Sampling 样日期 Date 送 Sending	/	
抽样地点 Sampling location	/			2022.10.14	
样品数量 Quantity of samples	1 组 One set	抽样基数 Base number of sampling	/	抽 Sampling 样者 Person	/
				送 Sending	李达 Li Da
原样品编号 Serial number of original sample	1		样品编号 Sample number	20221014-BKFM-HIC-11~13	
试验依据 Test basis	NACE TM0284-2016 Evaluation of Pipeline and Pressure Vessel Steels for Resistance to Hydrogen-Induced Cracking				
试验项目 Test items	抗氢致开裂试验 Hydrogen induced cracking test				
试验结论 Test conclusion	试验结果见附件。 Test results refer to appendix. 签发日期: 2022年11月7日 Date of issue:				
备注 Remarks	1、产品名称、原样品编号、材质、炉/批号和试验技术条件由委托方提供。 1. Product, serial number of original sample, material, batch No. and technical requirements are provided by the client. 2、试验方法及标准由委托方指定。 2. Test method and standard are required by the client. 3、试验由江苏隐石检验检测有限公司委托，报告出具给永嘉博康阀门有限公司。 3. The test was commissioned by Jiangsu Yinshi Inspection and Testing Co., Ltd., and the report was issued to Yongjia Ballking Valve Co., Ltd.				

批准: [Signature] 审核: [Signature] 试验: [Signature]
Approver: [Signature] Reviewer: [Signature] Test assistant: [Signature]

-----本报告主体内容结束线-----
-----End of the Text Body of the Report-----



附件:

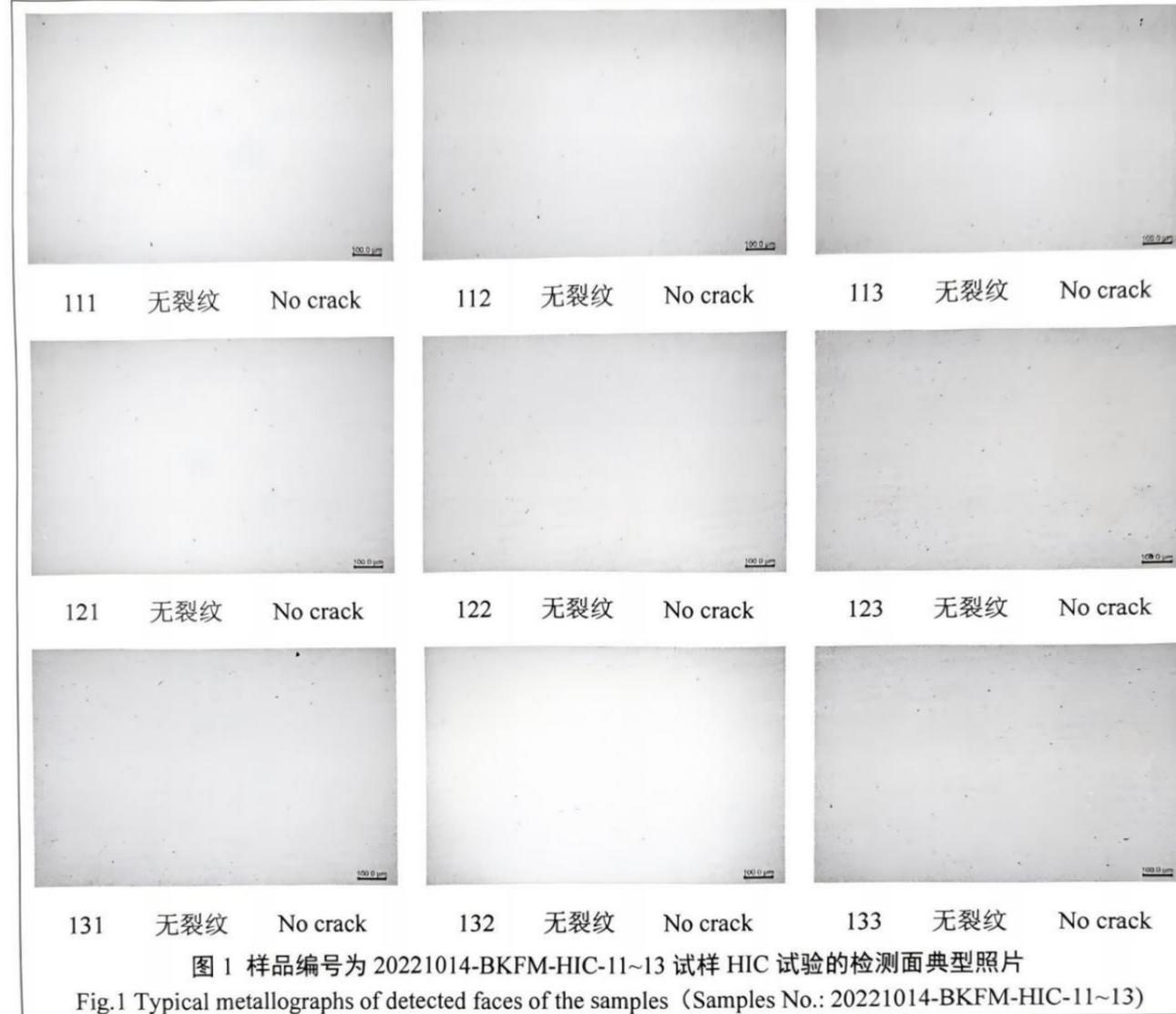
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	炉/批号 Batch No.	备注 Remarks	
	BKCJ025	/	

试验信息 Test information						
试验温度 Temperature	试验溶液 Test solution	pH			脱脂方式 Degreasing method	试验时间 Test duration
		初始溶液 Initial	试验开始 Start	试验结束 Finish		
25°C	溶液 A Solution A	2.7	3.0	3.6	脱脂剂 Degreasing agent	96 h

试验结果 Test results							
样品编号 Samples No.	检测面 Detected face	CLR (%)		CTR (%)		CSR (%)	
		实测值 Measured value	平均值 Average	实测值 Measured value	平均值 Average	实测值 Measured value	平均值 Average
20221014-BKFM-HIC-11	111	0	0	0	0	0	0
	112	0		0		0	
	113	0		0		0	
20221014-BKFM-HIC-12	121	0	0	0	0	0	0
	122	0		0		0	
	123	0		0		0	
20221014-BKFM-HIC-13	131	0	0	0	0	0	0
	132	0		0		0	
	133	0		0		0	
每组试样的平均值 Average for all samples		0		0		0	

委托方的验收要求: CLR≤5%, CTR≤1.5%, CSR≤0.5%.
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HIC 裂纹信息 Information of HIC cracks					
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/	/	/	/	/	/

-----本附件主体内容结束线-----
 -----End of the Main Body of Appendix-----



JL/TYJ7.5-005-G/0



中国认可
国际互认
检测
TESTING
CNAS L3293

210008222901

No: 2022-GMRI-BKFM-FS-001

试验报告

Test Report

产品名称:

试棒

PRODUCT:

Test Bar

客户单位:

永嘉博康阀门有限公司

CLIENT:

Yongjia Ballking Valve Co., Ltd.

生产单位:

/

MANUFACTURER:

试验项目:

抗氢致开裂 (HIC) 试验

TEST ITEM:

Hydrogen Induced Cracking Test

成分分析

- 铁基材料光谱分析
- 铜合金光谱分析
- 镍合金光谱分析



金相检测

- 组织及低倍组织
- 铁素体含量
- 非金属夹杂
- 平均晶粒度
- 渗碳淬火硬化层深度
- 脱碳层深度
- 金属和氧化物层厚度



博康



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CNAS L3293

210008222901

№: 2022-GMRI-BKFM-FS-002

试 验 报 告

Test Report

产 品 名 称 : 试棒
PRODUCT: Test Bar

客 户 单 位 : 永嘉博康阀门有限公司
CLIENT: Yongjia Ballking Valve Co., Ltd.

生 产 单 位 : /
MANUFACTURER: /

试 验 项 目 : 抗氢致开裂 (HIC) 试验
TEST ITEM: Hydrogen Induced Cracking Test



合肥通用机械研究院特种设备检验站有限公司
 SPECIAL EQUIPMENT INSPECTION STATION OF
 HEFEI GENERAL MACHINERY RESEARCH INSTITUTE CO., LTD.

JL/TYJ7.5-005-G/0 合肥通用机械研究院特种设备检验站有限公司试验报告

SPECIAL EQUIPMENT INSPECTION STATION OF HEFEI GENERAL MACHINERY RESEARCH INSTITUTE CO., LTD. TEST REPORT

NO:2022-GMRI-BKFM-FS-001

第 1 页 共 3 页

合肥通用机械研究院特种设备检验站有限公司

试 验 报 告

Special Equipment Inspection Station of Hefei General Machinery
 Research Institute Co., Ltd. Test Report

№ 2022-GMRI-BKFM-FS-001

产品名称 Product	试棒 Test bar		型号规格 Model/specification	/	
			商标 Trademark	/	
客户单位 Client	永嘉博康阀门有限公司 Yongjia Ballking Valve Co., Ltd.		试验类型 Test type	抗氢致开裂试验 Hydrogen induced cracking test	
生产单位 Manufacturer	/		样品等级 Grade of sample	/	
生产单位地址 Address	/		抽 Sampling 样日期 Date 送 Sending	/	
抽样地点 Sampling location	/			2022.8.29	
样品数量 Quantity of samples	1 组 One set	抽样基数 Base number of sampling	/	抽 Sampling 样者 Person	/
				送 Sending	李达 Li Da
原样品编号 Serial number of original sample	1		样品编号 Sample number	20220829-BKFM-HIC-11~13	
试验依据 Test basis	NACE TM0284-2016 Evaluation of Pipeline and Pressure Vessel Steels for Resistance to Hydrogen-Induced Cracking				
试验项目 Test items	抗氢致开裂试验 Hydrogen induced cracking test				
试验结论 Test conclusion	试验结果见附件。 Test results refer to appendix. 签发日期: 2022年8月9日 Date of issue: 2022.8.9				
备注 Remarks	1、产品名称、原样品编号、材质、炉/批号、订单号和试验技术条件由委托方提供。 1. Product, serial number of original sample, material, batch No., order No. and technical requirements are provided by the client. 2、试验方法及标准由委托方指定。 2. Test method and standard are required by the client. 3、试验由江苏隐石检验检测有限公司委托, 报告出具给永嘉博康阀门有限公司。 3. The test was commissioned by Jiangsu Yinshi Inspection and Testing Co., Ltd., and the report was issued to Yongjia Ballking Valve Co., Ltd.				

批准:

Approver:

审核:

Reviewer:

试验:

Test assistant:

-----本报告主体内容结束线-----

-----End of the Text Body of the Report-----



真伪查询

注 意 事 项

REMARKS

检测报告

Test Report



报告编号 Report No.	HCT2023MB06359
样品名称 Sample Name	试样 Sample
委托单位 Entrustment Company	永嘉博康阀门有限公司 YONGJIA BALLKING VALVE CO.,LTD
生产单位 Manufacturer	永嘉博康阀门有限公司 YONGJIA BALLKING VALVE CO.,LTD
试验项目 Test Project	涂层厚度、孔隙率试验 Coating Thickness, Porosity Test

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Report facticity query URL <http://www.valvetpi.com/report-query.html>, and the QR code query system is supported by www.pv001.com.

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Address: Haichuan 1st, North of G104, Oubei Street, Yongjia, Wenzhou, Zhejiang, China

电话 (Tel) : +86 577-67007555 传真 (Fax) : +86 577-67007556

邮政编码 (Post) : 325105 电子信箱 (E-mail) : 002@valvetpi.com

温州海川检验有限公司
Wenzhou Haichuan Inspection Co., Ltd.





温州海川检验有限公司

Wenzhou Haichuan Inspection Co., Ltd.

No.: HCT2023MB06359

永嘉博康阀门有限公司
YONGJIA BALLKING VALVE CO.,LTD

永嘉县东瓯街道东瓯工业区(浙江汇通阀门制造有限公司内)

样品名称: 试样
Sample Name: Sample
委托编号: HCT2023MB06359
Entrustment No.: HCT2023MB06359
样品编号: MB06359-1-3
Sample No.: MB06359-1-3
样品材质: F51+TCC
Sample Material: F51+TCC
样品规格: BTM1-1/2 10M
Sample Specification: BTM1-1/2 10M
样品型号: /
Sample Model: /
样品炉批号: 230425AE02-01
Sample Batch&Heat No.: 230425AE02-01
生产商: 永嘉博康阀门有限公司
Manufacturer Name: YONGJIA BALLKING VALVE CO.,LTD
其他: 涂层批号: 23254
Others:

以上信息由客户提供并确认, 本实验室不负责其真实性

The above information is provided and confirmed by the customer and the lab is not responsible for its authenticity.

样品接收日期: 2023-09-11
Sample Received Date: 2023-09-11

测试周期: 2023-09-11 to 2023-09-12
Test Period: 2023-09-11 to 2023-09-12

测试项目: 涂层厚度、孔隙率试验
Test Project: Coating Thickness, Porosity Test

测试方法: 请参见下一页
Test Method: Refer to next page(s)

测试结果: 请参见下一页
Test Result(s): Refer to next page(s)

检验和测试专用章
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Issue Date: 2023-09-11

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温州海川检验有限公司

Wenzhou Haichuan Inspection Co., Ltd.

No.: HCT2023MB06359

1 涂层厚度

Coating Thickness

测试方法: ASTM B487-2020 用横截面的显微镜检查测量金属和氧化物涂层厚度的标准试验方法

Test Method: ASTM B487-2020 Standard Test Method for Measurement of Metal and Oxide Coating Thickness by Microscopical Examination of Cross Section

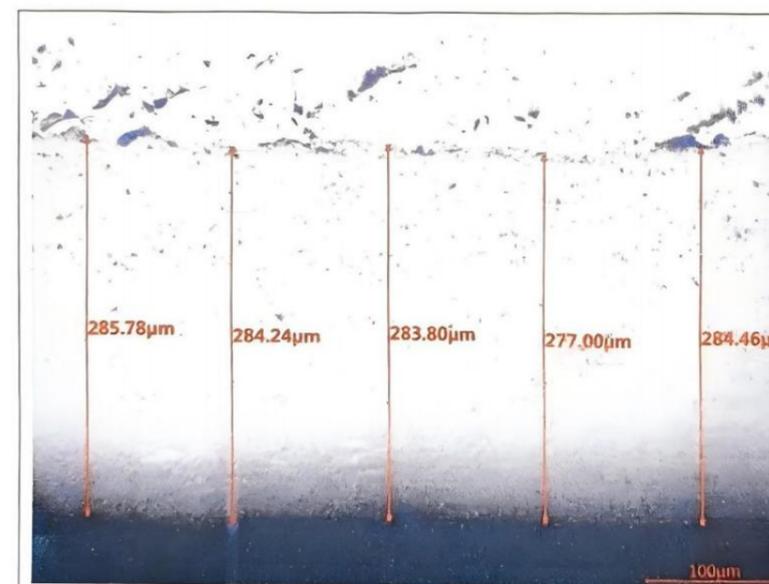
检测设备: 金相显微镜 4XC (XW-01)

Test Equipment: Metallographic microscope 4XC(XW-01)

测试结果:

Test Result:

样品编号 Sample No.	结果/Result (μm)					平均值(μm) Average Value
	1	2	3	4	5	
MB06359-1-3	285.78	284.24	283.80	277.00	284.46	283.06



MB06359-1-3 金相图 100X
MB06359-1-3 Metallograph 100X

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2 孔隙率试验/Porosity Test

测试方法: ASTM E2109-01 (2014) 测定热喷镀涂层孔隙率面积百分比的试验方法

Test Method: ASTM E2109-01(2014) Standard Test Methods for Determining Area Percentage Porosity in Thermal Sprayed Coatings

检测设备: 金相显微镜 4XC (XW-01) /Test Equipment: Metallographic microscope 4XC(XW-01)

测试结果: /Test Result:

样品编号 Sample No.	结果/Result (%)			
	视场 field 1	视场 field 2	视场 field 3	平均值 (%) Average Value
MB06359-1-3	0.5	0.5	0.5	0.5



MB06359-1-3 视场 1 金相图 100X
MB06359-1-3 field 1 Metallograph 100X



MB06359-1-3 视场 2 金相图 100X
MB06359-1-3 field 2 Metallograph 100X



MB06359-1-3 视场 3 金相图 100X
MB06359-1-3 field 3 Metallograph 100X

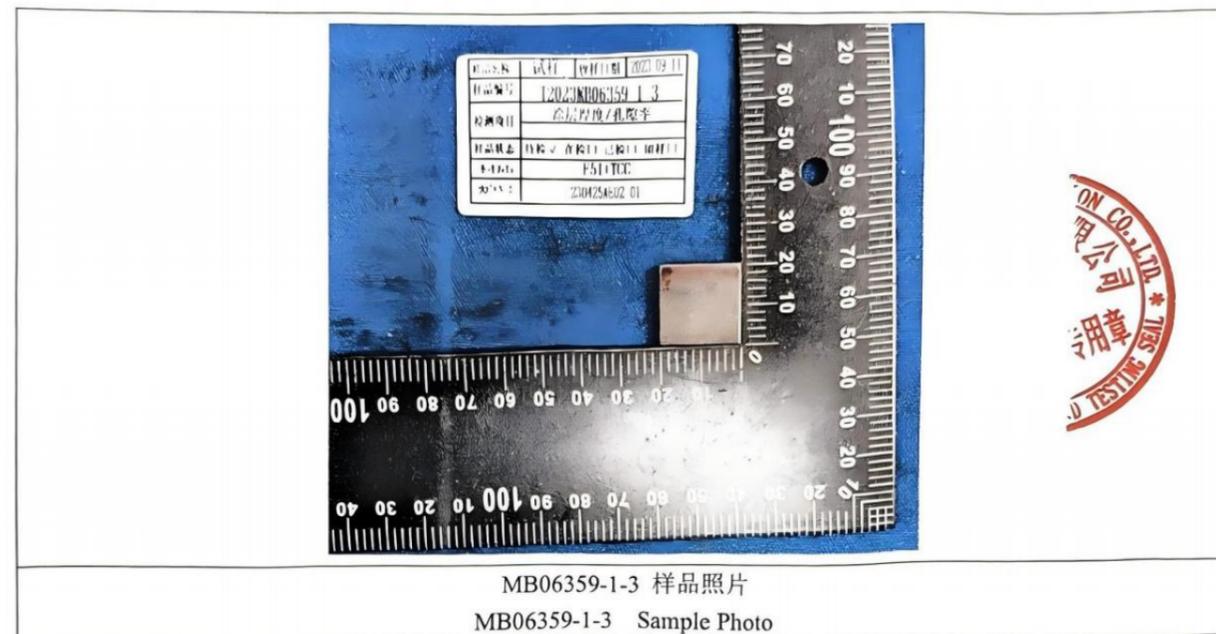
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MB06359-1-3 样品照片
MB06359-1-3 Sample Photo

报告结束
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WENZHOU HAICHUAN INSPECTION CO., LTD.

JL/TYJ7.5-005-G/0 合肥通用机械研究院特种设备检验站有限公司试验报告

SPECIAL EQUIPMENT INSPECTION STATION OF HEFEI GENERAL MACHINERY RESEARCH INSTITUTE CO., LTD. TEST REPORT

NO:2022-GMRI-BKFM-FS-001

第 2 页 共 3 页

附件:

Appendix:

客户单位 Client	永嘉博康阀门有限公司 Yongjia Ballking Valve Co., Ltd.		
试样信息 Information of the samples			
样品编号 Samples No.	产品名称 Product	原样品编号 Serial No. of original sample	材质 Material
20220829-BKFM-HIC-11~13	试棒 Test bar	1	ASTMA182 F316L
	炉/批号 Batch No.	订单号 Order No.	备注 Remarks
	BKEK271	LN20220705	/

试验信息 Test information						
试验温度 Temperature	试验溶液 Test solution	pH			脱脂方式 Degreasing method	试验时间 Test duration
		初始溶液 Initial	试验开始 Start	试验结束 Finish		
25℃	溶液 A Solution A	2.7	3.0	3.7	脱脂剂 Degreasing agent	96 h

试验结果 Test results							
样品编号 Samples No.	检测面 Detected face	CLR (%)		CTR (%)		CSR (%)	
		实测值 Measured value	平均值 Average	实测值 Measured value	平均值 Average	实测值 Measured value	平均值 Average
20220829-BKFM-HIC-11	111	0	0	0	0	0	0
	112	0		0			
	113	0		0			
20220829-BKFM-HIC-12	121	0	0	0	0	0	0
	122	0		0			
	123	0		0			
20220829-BKFM-HIC-13	131	0	0	0	0	0	0
	132	0		0			
	133	0		0			
每组试样的平均值 Average for all samples		0		0		0	

委托方的验收要求: CLR≤5%, CTR≤1.5%, CSR≤0.5%。

Acceptance requirements of the client: CLR≤5%, CTR≤1.5%, CSR≤0.5%.



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真
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检 测 报 告

Test Report

报告编号 Report No.	HCT2025MB06238-2
样品名称 Sample Name	试样 Sample
委托单位 Entrustment Company	永嘉博康阀门有限公司
生产单位 Manufacturer	永嘉博康阀门有限公司
试验项目 Test Project	拉伸试验、晶间腐蚀试验 Tensile Test, Intergranular Corrosion Test

温州海川检验有限公司

Wenzhou Haichuan Inspection Co., Ltd.



温州海川检验有限公司
Wenzhou Haichuan Inspection Co., Ltd.

No.: HCT2025MB06238-2

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温州海川检验有限公司

Wenzhou Haichuan Inspection Co., Ltd.

No.: HCT2025MB06238-1

永嘉博康阀门有限公司

永嘉县东瓯街道东瓯工业区

样品名称: 试样
Sample Name: Sample
委托编号: HCT2025MB06238-1
Entrustment No.:
样品编号: 请参见下一页
Sample No.: Refer to next page(s)
样品材质: ASTM A276 XM-19
Sample Material:
样品型号: /
Sample Model:
样品规格: /
Sample Specification:
样品炉批号: STL23S030-A
Sample Batch&Heat No.:
生产商: 永嘉博康阀门有限公司
Manufacturer Name:

以上信息由客户提供并确认, 本实验室不负责其真实性

The above information is provided and confirmed by the customer and the lab is not responsible for its authenticity.

样品接收日期: 2025-04-01
Sample Received Date:

测试周期: 2025-04-01 ~ 2025-04-03
Test Period:

测试项目: 拉伸试验、晶间腐蚀试验
Test Project: Tensile Test, Intergranular Corrosion Test

测试方法: 请参见下一页
Test Method: Refer to next page(s)

测试结果: 请参见下一页
Test Result(s): Refer to next page(s)

检验检测专用章
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温州海川检验有限公司

Wenzhou Haichuan Inspection Co., Ltd.

No.: HCT2025MB06238-1

1 拉伸试验

Tensile Test

测试方法: ASTM A370-24 钢制品力学性能试验的标准试验方法和定义

Test Method: ASTM A370-24 Standard Test Methods and Definitions for Mechanical Testing of Steel Products

检测设备: WAW-600Q 微机控制电液伺服万能试验机 (ET-04)

Test Equipment: Microcomputer controlled electro-hydraulic servo universal testing machine WAW-600Q (ET-04)

测试结果:

Test Result:

样品编号 Sample No.	试样类型 Sample Type	抗拉强度 Tensile strength (MPa)	屈服强度 Yield strength (偏置/offset 0.2%/MPa)	断后伸长率 Elongation after fracture (%)	断面收缩率 Reduction of area (%)
25MB06238-1-4	圆形截面试样 Circular section specimen	822	540	44	68



25MB06238-1-4 样品照片
25MB06238-1-4 Sample Photo

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2 晶间腐蚀试验

Intergranular Corrosion Test

测试方法: ASTM A262-15 (2021) 奥氏体不锈钢晶间腐蚀敏感性检测的标准实施规程 (E 法)

Test Method: ASTM A262-15 (2021) Standard Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels (Practice E)

检测设备: WAW-300B 微机控制电液伺服万能试验机 (ET-02)、SZM45T 体视显微镜 (XW-02)、数显游标卡尺 0-150mm (KC-02)、LC-MF-430 马弗炉 (FS-05)、电阻炉

Test Equipment: Microcomputer controlled electro-hydraulic servo universal testing machine WAW-300B (ET-02), Stereo microscope SZM45T (XW-02), Digital display vernier 0-150mm (KC-02), LC-MF-430 Muffle furnace (FS-05), Resistance furnace

测试结果:

Test Result:

样品编号 Sample No.	样品尺寸 Sample Size (mm)	测试时间 Test Time (h)	测试溶液 Test Solution	弯曲角度 Bending Angle (°)	压头直径 Head Diameter (mm)	敏化制度 Sensitization System
25MB06238-1-6	79.80×19.80×4.86	15	铜-硫酸铜-16%硫酸 溶液 (沸腾) copper-copper sulfate-16% sulfuric acid solution (boiling)	180	5	675°C 保温 1h, 空冷 Heat preservation at 675°C for 1h, air cooling

备注: (1) 试样表面经打磨处理;

(2) 腐蚀产物清洗方法: 清水冲洗→毛刷擦除→超声波清洗→酒精清洗吹干。

Remarks: (1) The sample surface is polished;

(2) Cleaning method of corrosion products: clean water rinse → brush wipe → ultrasonic cleaning → alcohol cleaning and dry.

样品编号 Sample No.	测试结果 Test Result
25MB06238-1-6	20X 显微镜观察弯曲试样外表面无裂纹且未发现晶间腐蚀现象。 No cracks and intergranular corrosion were found on the outer surface of the curved specimen by 20X microscope.

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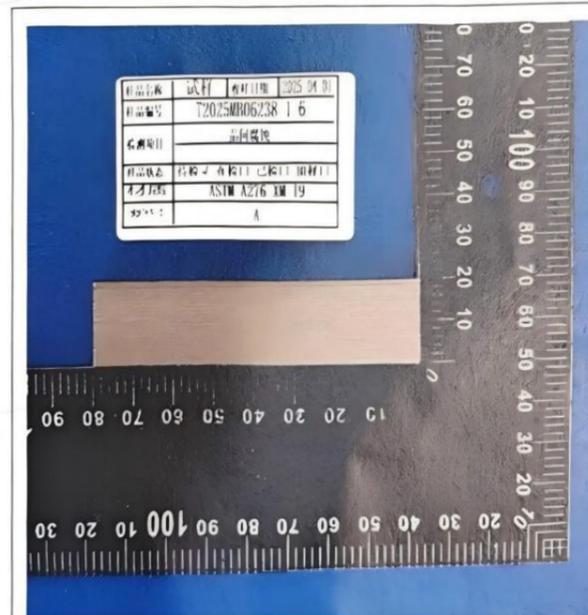
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25MB06238-1-6 20X 显微镜照片

25MB06238-1-6 20X Microscope Photo



25MB06238-1-6 试验前样品照片

25MB06238-1-6 Photo of sample before test



25MB06238-1-6 试验后样品照片

25MB06238-1-6 Photo of sample after test

报告结束

End of Report

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