

检 测 报 告

TEST REPORT

报告编号/No.: STS2111241A-1

样品名称 轨道（轨道垫板、轨道方钢）

Sample Name /

委托单位 江西华鑫环宇科技集团有限公司

Client /

检验类别 委托检验

Test Type Entrustment Inspection

江苏科泰检测技术服务有限公司
Jiangsu Science Test Technology Service Co., Ltd



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委托单位名称 Client's Unit	江西华鑫环宇科技集团有限公司		
地址/电话 Add./Tel.	江西省宜春市樟树市城北经济技术开发区清江大道 666 号		
样品描述 Sample Description	样品状态/ Sample Description: 固态/ Solid state 1#样品名称/ Sample Name: 轨道-轨道垫板 2#样品名称/ Sample Name: 轨道-轨道方钢 其它/Else: /	样品数量/ Sample Quantity: 2 牌号/Brand: Q355B 牌号/Brand: 0Cr18Ni9	
检测设备 Test Equipment	美国热电直读光谱仪 ARL3460 American thermoelectric direct reading spectrometer ARL3460 微机控制电液伺服万能试验机 SHT4605 Microcomputer controlled electro-hydraulic servo universal testing machine SHT4605 维氏硬度计 HV-10/Vickers hardness tester HV-10		
检测标准 /检测项目/检测结果 Test Methods /Test Items/ Test Results	见下页 Vide infra		
送样日期 Delivering Date	2021.11.30	检验日期 Test Date	2021.12.02-03
检验地点 Test Place	昆山实验室 Kunshan Laboratory		
编制 Compiled by	朱艳		
审核 Checked by	林茂广		
批准 Approved by	朱焯		



1. 拉伸试验/Tensile test

检测标准/Test standard: GB/T 228.1-2010

检测结果/Test results:

试样编号 Sp. No.	抗拉强度 R _m Tensile Strength (MPa)	规定塑性延伸强度 R _{p0.2} Proof Strength R _{p0.2} (MPa)	断后伸长率(A) Percentage Elongation after Fracture (%)	备注 Note
技术要求 Tech. req.	470~630	≥355	≥22	选自 GB/T 3274-2017, Q355B From the GB/T 3274-2017, Q355B
A-1 (轨道垫板)	610	477	23.5	符合 Acceptable

试样编号 Sp. No.	抗拉强度 R _m Tensile Strength (MPa)	规定塑性延伸强度 R _{p0.2} Proof Strength R _{p0.2} (MPa)	断后伸长率(A) Percentage Elongation after Fracture (%)	备注 Note
技术要求 Tech. req.	≥520	≥205	≥40	选自 GB/T 1220-2007, 0Cr18Ni9 From the GB/T 1220-2007, 0Cr18Ni9
B-1 (轨道方钢)	780	621	41.5	符合 Acceptable

2. 维氏硬度试验/Vickers hardness test

检测标准/Test standard: GB/T 4340.1-2009

检测结果/Test results:

试样编号 Sp. No.	检测结果 Test Results			平均值 AVG	硬度符号 Hardness symbol	备注 Note
A-2 (轨道垫板)	177	177	176	177	HV10	----
B-2 (轨道方钢)	259	264	260	261	HV10	----

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3.成分分析/Component analysis

检测标准/ Test standard: **GB/T 4336-2016**

检测结果/Test results:

试样编号 Sp. No.	C (%)	Si (%)	Mn (%)	P (%)	S (%)
技术要求 Tech. req.	≤0.20	≤0.55	≤1.60	≤0.030	≤0.030
A-3 (轨道垫板)	0.19	0.24	0.50	0.016	0.003
试样编号 Sp. No.	Ni (%)	Cu (%)	Cr (%)	备注 Note	
技术要求 Tech. req.	≤0.30	≤0.40	≤0.30	选自 GB/T1591-2018, Q355B From the GB/T1591-2018, Q355B	
A-3 (轨道垫板)	0.006	0.03	0.023	符合 Acceptable	

4.成分分析/Component analysis

检测标准/ Test standard: **GB/T 11170-2008**

检测结果/Test results:

试样编号 Sp. No.	C (%)	Si (%)	Mn (%)	P (%)	S (%)
技术要求 Tech. req.	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030
B-3 (轨道方钢)	0.06	0.33	1.01	0.043	0.009
试样编号 Sp. No.	Ni (%)	Cu (%)	Cr (%)	备注 Note	
技术要求 Tech. req.	8.00~11.00	/	18.00~20.00	选自 GB/T 1220-2007, 0Cr18Ni9 From the GB/T 1220-2007, 0Cr18Ni9	
B-3 (轨道方钢)	8.00	/	18.04	符合 Acceptable	

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5. 弯曲试验/Bend Test

检测标准/Test standard: GB/T 232-2010

检测结果/Test results:

试样编号 Sp. No.	试验类型 Test type	试样尺寸 Specimen Size (mm)	弯心直径 Bend enter Diameter (mm)	弯曲角度 Bend angle (°)	支辊间距离 Distance Between the Sticks (mm)	结果 Result	备注 Note
A-4 (轨道垫板)	冷弯 Cold Bend	2.7*20*150	5.4	180	14	合格 Qualified	---
B-4 (轨道方钢)	冷弯 Cold Bend	20*20*220	60	180	103	合格 Qualified	---

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