

金桥焊材®

TIANJIN GOLDEN BRIDGE WELDING MATERIALS GROUP CO., LTD
天津市金桥焊材集团股份有限公司

MILL CERTIFICATE 产品质量证明书

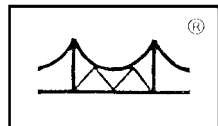
NO. 890000334952

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
碳钢焊条	JQ·E7018	E5018	E7018 H4	ISO 2560-A-E 42 3 B 42 H5	3.2	23061068		
Execute Standard 执行标准			GB/T 5117-2012及AWS A5.1及ISO 2560					
Chemical Composition of Deposited Metal 熔敷金属化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	≤0.15	0.072	Tensile Strength 抗拉强度Rm(MPa)	≥490	593	Fillet 角焊缝 Radiographic Inspection 焊缝射线探伤 Diffusible Hydrogen Cont ent of Deposited Metal 熔敷金属扩散氢含量(热导 法 ml/100g)	合格	合格
S	≤0.035	0.009		Yield Strength 屈服强度ReL(MPa)	≥400		496	I级
Mn	≤1.60	0.99	Percentage Elongation after Fracture 伸长率A(%)	≥22	28.0		≤4.00	3.38
Si	≤0.75	0.44		V-notch Impact Test V型缺口冲击试验	-30		-30	
P	≤0.035	0.022	Absorbed Energy 吸收能量KV ₂ (J)	≥27	150、134、155			
Cr	≤0.20	0.071						
Ni	≤0.30	0.024						
Mo	≤0.30	0.005						
V	≤0.08	0.011						
Approved by 产品认证			ABS、BKI			WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。		
Remarks 备注			0UD: 81098261			制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章		

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电话:022-58296666 Tel:0086-22-24997375 邮编(Post Code):300300
电邮:market@tjgoldenbridge.com E-Mail:export@tjgoldenbridge.com



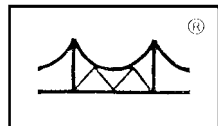
金桥焊材®

MILL CERTIFICATE
产品质量证明书

NO. 890000348001

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号			
不锈钢焊条	A102	E308-16	E308-16	ISO 3581-A-E (19 9) R 3 2	2.5	23111242			
Execute Standard 执行标准			GB/T 983-2012及AWS A5.4及ISO 3581						
Chemical Composition of Deposited Metal 熔敷金属化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他			
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	
C	≤0.08	0.045	Tensile Strength 抗拉强度Rm(MPa)	≥550	598	Fillet 角焊缝	合格	合格	
S	≤0.030	0.003		Proof strength, non-proportional extension 规定非比例延伸强度Rp0.2	≥290				402
Mn	0.50—2.50	1.16			Percentage Elongation after Fracture 伸长率A (%)				≥30
Si	≤1.00	0.69	V-notch Impact Test V型缺口冲击试验	Impact Temp. 试验温度(℃)	-20				-20
P	≤0.040	0.023		Absorbed Energy 吸收能量KV ₂ (J)	≥29				57、59、63
Cr	18.00—21.00	19.46							
Ni	9.00—11.00	9.23							
Mo	≤0.75	0.015							
Cu	≤0.75	0.038							
Approved by 产品认证			CCS、BV、ABS、DNV			WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。			
Remarks 备注			Complied with CCS 《Rules for Materials and Welding》 满足CCS《材料与焊接规范》			制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日			
0UD: 81098261						QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章			



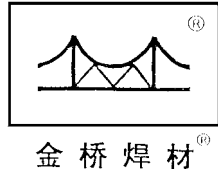
金桥焊材®

MILL CERTIFICATE
产品质量证明书

NO. 890000353947

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
不锈钢氩弧焊丝	JQ.TG316L	S316L	ER316L		3.2(20KG)	24025934		
Execute Standard 执行标准			GB/T 29713-2013					
Chemical Composition of Welding Wires 焊丝化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	≤0.030	0.012	Tensile Strength 抗拉强度Rm(MPa)	≥510	579	Longitudinal Bend Test of Deposited Metal 熔 敷金属纵向弯曲试验 Radiographic Inspection 焊缝射线探伤	合格	合格
S	≤0.030	0.008						I级
Mn	1.00—2.50	1.96	Percentage Elongation after Fracture 伸长率A(%)	≥30.0	36.5			
Si	0.30—0.65	0.59						
P	≤0.030	0.021						
Cr	18.00—20.00	18.80						
Ni	11.00—14.00	11.60						
Mo	2.00—3.00	2.11						
Cu	≤0.75	0.090						
Approved by 产品认证				WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。				
Remarks 备注 OUD: 81098260				制表:任玉双 审核:张秋彦 制表日期: 2024年06月24日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章				

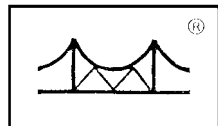


MILL CERTIFICATE
产品质量证明书

NO. 890000355653

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
不锈钢焊条	A102	E308-16	E308-16	ISO 3581-A-E (19 9) R 3 2	3.2	24031143		
Execute Standard 执行标准			GB/T 983-2012及AWS A5.4及ISO 3581					
Chemical Composition of Deposited Metal 熔敷金属化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	≤0.08	0.040	Tensile Strength 抗拉强度Rm(MPa)	≥550	605	Fillet 角焊缝	合格	合格
S	≤0.030	0.005						
Mn	0.50—2.50	1.11						
Si	≤1.00	0.78	Proof strength, non-proportional extension 规定非比例延伸强度Rp0.2	≥290	412			
P	≤0.040	0.021	Percentage Elongation after Fracture 伸长率A (%)	≥30	41.0			
Cr	18.00—21.00	18.58	V-notch Impact Test V型缺口冲击试验	Impact Temp. 试验温度(℃)	-20			
Ni	9.00—11.00	9.02		Absorbed Energy 吸收能量KV ₂ (J)	≥29	57、59、64		
Mo	≤0.75	0.010						
Cu	≤0.75	0.093						
Approved by 产品认证			CCS、BV、ABS、DNV			WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。		
Remarks 备注			Complied with CCS 《Rules for Materials and Welding》 满足CCS《材料与焊接规范》			制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日		
0UD: 81098261						QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章		



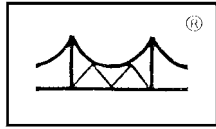
金桥焊材®

MILL CERTIFICATE
产品质量证明书

NO. 890000356251

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号				
碳钢焊条	J38. 12M	E4313	E6013	ISO 2560-A-E 35 0 R 12	2.5	24041609				
Execute Standard 执行标准			GB/T 5117-2012及AWS A5.1及ISO 2560							
Chemical Composition of Deposited Metal 熔敷金属化学成分 (%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他				
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值		
C	≤0.20	0.060	Tensile Strength 抗拉强度Rm (MPa)	≥430	495	Fillet 角焊缝 Radiographic Inspection 焊缝射线探伤	合格 II级	合格 I级		
S	≤0.035	0.014		Yield Strength 屈服强度ReL (MPa)	≥330				395	
Mn	≤1.20	0.33			Percentage Elongation after Fracture 伸长率A (%)				≥17.0	28.0
Si	≤1.00	0.20	V-notch Impact Test V型缺口冲击试验	Impact Temp. 试验温度(°C)					0	0
P	≤0.040	0.024								
Cr	≤0.20	0.037								
Ni	≤0.30	0.009								
Mo	≤0.30	0.005								
V	≤0.08	0.007								
Approved by 产品认证				WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。						
Remarks 备注 OUD: 81098262				制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章						



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TIANJIN GOLDEN BRIDGE WELDING MATERIALS GROUP CO., LTD
天津市金桥焊材集团股份有限公司

MILL CERTIFICATE 产品质量证明书

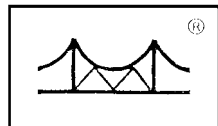
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GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号			
碳钢焊条	J38. 12M	E4313	E6013	ISO 2560-A-E 35 0 R 12	3.2	24041610			
Execute Standard 执行标准			GB/T 5117-2012及AWS A5.1及ISO 2560						
Chemical Composition of Deposited Metal 熔敷金属化学成分 (%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他			
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	
C	≤0.20	0.067	Tensile Strength 抗拉强度Rm (MPa)	≥430	500	Fillet 角焊缝 Radiographic Inspection 焊缝射线探伤	合格 II级	合格 I级	
S	≤0.035	0.010		Yield Strength 屈服强度ReL (MPa)	≥330				400
Mn	≤1.20	0.36			Percentage Elongation after Fracture 伸长率A (%)				≥17.0
Si	≤1.00	0.23	V-notch Impact Test V型缺口冲击试验	Impact Temp. 试验温度(°C)					0
P	≤0.040	0.025			Absorbed Energy 吸收能量KV ₂ (J)	≥47	70、72、74		
Cr	≤0.20	0.034							
Ni	≤0.30	0.009							
Mo	≤0.30	0.005							
V	≤0.08	0.008							
Approved by 产品认证				WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。					
Remarks 备注 OUD: 81098262				制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章					

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电话:022-58296666 Tel:0086-22-24997375 邮编 (Post Code) :300300
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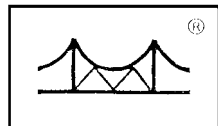
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MILL CERTIFICATE
产品质量证明书

NO. 890000363269

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
不锈钢气保护焊丝	JQ.MG308L	S308L	ER308L		0.8(5KG)	24046029		
Execute Standard 执行标准			GB/T 29713-2013					
Chemical Composition of Welding Wires 焊丝化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	≤0.030	0.011	Tensile Strength 抗拉强度Rm(MPa)	≥520	562			
S	≤0.030	0.009						
Mn	1.00—2.50	2.15	Percentage Elongation after Fracture 伸长率A(%)	≥35.0	40.5			
Si	0.30—0.65	0.55						
P	≤0.030	0.019						
Cr	19.50—22.00	19.80						
Ni	9.00—11.00	9.60						
Mo	≤0.75	0.030						
Cu	≤0.75	0.040						
Approved by 产品认证			CCS			WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。		
Remarks 备注			Complied with CCS 《Rules for Materials and Welding》 满足CCS《材料与焊接规范》			制表:任玉双 审核:张秋彦 制表日期: 2024年06月24日		
OUD: 81098260						QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章		



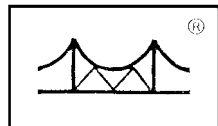
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MILL CERTIFICATE
产品质量证明书

NO. 890000359957

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
不锈钢氩弧焊丝	JQ.TG316L	S316L	ER316L		1.6(20KG)	24046032		
Execute Standard 执行标准			GB/T 29713-2013					
Chemical Composition of Welding Wires 焊丝化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	≤0.030	0.015	Tensile Strength 抗拉强度Rm(MPa)	≥510	587	Longitudinal Bend Test of Deposited Metal 熔 敷金属纵向弯曲试验 Radiographic Inspection 焊缝射线探伤	合格	合格
S	≤0.030	0.009						I级
Mn	1.00—2.50	2.03	Percentage Elongation after Fracture 伸长率A(%)	≥30.0	39.0			
Si	0.30—0.65	0.59						
P	≤0.030	0.022						
Cr	18.00—20.00	18.70						
Ni	11.00—14.00	11.60						
Mo	2.00—3.00	2.15						
Cu	≤0.75	0.080						
Approved by 产品认证				WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。				
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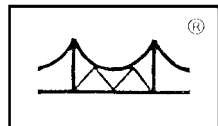
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MILL CERTIFICATE
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NO. 890000359958

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
不锈钢氩弧焊丝	JQ.TG316L	S316L	ER316L		2.4(20KG)	24046033		
Execute Standard 执行标准			GB/T 29713-2013					
Chemical Composition of Welding Wires 焊丝化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	≤0.030	0.014	Tensile Strength 抗拉强度Rm(MPa)	≥510	594	Longitudinal Bend Test of Deposited Metal 熔 敷金属纵向弯曲试验 Radiographic Inspection 焊缝射线探伤	合格	合格
S	≤0.030	0.008						I级
Mn	1.00—2.50	2.04	Percentage Elongation after Fracture 伸长率A(%)	≥30.0	37.5			
Si	0.30—0.65	0.57						
P	≤0.030	0.021						
Cr	18.00—20.00	18.80						
Ni	11.00—14.00	11.60						
Mo	2.00—3.00	2.14						
Cu	≤0.75	0.070						
Approved by 产品认证				WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。				
Remarks 备注 OUD: 81098260				制表:任玉双 审核:张秋彦 制表日期: 2024年06月24日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章				



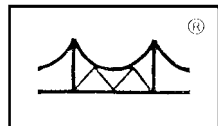
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MILL CERTIFICATE
产品质量证明书

NO. 890000359953

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
不锈钢氩弧焊丝	JQ.TG308L	S308L	ER308L		1.6(20KG)	24046034		
Execute Standard 执行标准			GB/T 29713-2013					
Chemical Composition of Welding Wires 焊丝化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	≤0.030	0.016	Tensile Strength 抗拉强度Rm(MPa)	≥520	559			
S	≤0.030	0.007						
Mn	1.00—2.50	2.15	Percentage Elongation after Fracture 伸长率A(%)	≥35.0	44.0			
Si	0.30—0.65	0.49						
P	≤0.030	0.020						
Cr	19.50—22.00	19.60						
Ni	9.00—11.00	9.60						
Mo	≤0.750	0.020						
Cu	≤0.750	0.030						
Approved by 产品认证				WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。				
Remarks 备注 OUD: 81098260				制表:任玉双 审核:张秋彦 制表日期: 2024年06月24日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章				



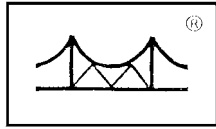
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产品质量证明书

NO. 890000359954

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号		Size 规格	Batch No. 批号	
不锈钢氩弧焊丝	JQ.TG308L	S308L	ER308L			2.4(20KG)	24046035	
Execute Standard 执行标准			GB/T 29713-2013					
Chemical Composition of Welding Wires 焊丝化学成分 (%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	≤0.030	0.015	Tensile Strength 抗拉强度Rm (MPa)	≥520	566			
S	≤0.030	0.008						
Mn	1.00—2.50	2.20						
Si	0.30—0.65	0.52						
P	≤0.030	0.019	Percentage Elongation after Fracture 伸长率A (%)	≥35.0	41.5			
Cr	19.50—22.00	19.60						
Ni	9.00—11.00	9.60						
Mo	≤0.750	0.020						
Cu	≤0.750	0.030						
Approved by 产品认证				WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。				
Remarks 备注 OUD: 81098260				制表:任玉双 审核:张秋彦 制表日期: 2024年06月24日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章				



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天津市金桥焊材集团股份有限公司

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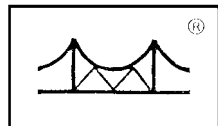
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GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号		Size 规格	Batch No. 批号	
不锈钢氩弧焊丝	JQ.TG308L	S308L	ER308L			3.2(20KG)	24046036	
Execute Standard 执行标准			GB/T 29713-2013					
Chemical Composition of Welding Wires 焊丝化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	≤0.030	0.016	Tensile Strength 抗拉强度Rm(MPa)	≥520	573			
S	≤0.030	0.008						
Mn	1.00—2.50	2.13	Percentage Elongation after Fracture 伸长率A(%)	≥35.0	39.0			
Si	0.30—0.65	0.50						
P	≤0.030	0.020						
Cr	19.50—22.00	19.60						
Ni	9.00—11.00	9.50						
Mo	≤0.750	0.020						
Cu	≤0.750	0.030						
Approved by 产品认证				WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。				
Remarks 备注 OUD: 81098260				制表:任玉双 审核:张秋彦 制表日期: 2024年06月24日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章				

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电话:022-58296666 Tel:0086-22-24997375 邮编(Post Code):300300
电邮:market@tjgoldenbridge.com E-Mail:export@tjgoldenbridge.com



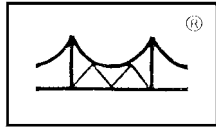
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产品质量证明书

NO. 890000359952

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
不锈钢气保护实心焊丝	JQ.MG308L	S308L	ER308L		1.2(5KG)	24046041		
Execute Standard 执行标准			GB/T 29713-2013					
Chemical Composition of Welding Wires 焊丝化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	≤0.030	0.015	Tensile Strength 抗拉强度Rm(MPa)	≥510	571	Radiographic Inspection 焊缝射线探伤	I级	I级
S	≤0.030	0.008						合格
Mn	1.00—2.50	2.13	Percentage Elongation after Fracture 伸长率A(%)	≥25	41.0	Longitudinal Bend Test of Deposited Metal 熔 敷金属纵向弯曲试验		
Si	0.30—0.65	0.52						
P	≤0.030	0.018						
Cr	19.50—22.00	19.60						
Ni	9.00—11.00	9.60						
Mo	≤0.75	0.020						
Cu	≤0.75	0.030						
Approved by 产品认证			CCS			WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。		
Remarks 备注			Complied with CCS 《Rules for Materials and Welding》 满足CCS《材料与焊接规范》			制表:任玉双 审核:张秋彦 制表日期: 2024年06月24日		
OUD: 81098260						QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章		



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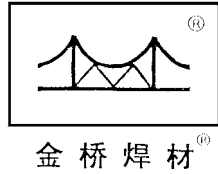
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GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号		Size 规格	Batch No. 批号	
不锈钢气保护实心焊丝	JQ.MG308L	S308L	ER308L			0.9(5KG)	24046044	
Execute Standard 执行标准			GB/T 29713-2013					
Chemical Composition of Welding Wires 焊丝化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	≤0.030	0.015	Tensile Strength 抗拉强度Rm(MPa)	≥520	575	Radiographic Inspection 焊缝射线探伤	I级	I级
S	≤0.030	0.008						合格
Mn	1.00—2.50	2.13	Percentage Elongation after Fracture 伸长率A(%)	≥35.0	39.5	Longitudinal Bend Test of Deposited Metal 熔 敷金属纵向弯曲试验		
Si	0.30—0.65	0.52						
P	≤0.030	0.018						
Cr	19.50—22.00	19.60						
Ni	9.00—11.00	9.60						
Mo	≤0.75	0.020						
Cu	≤0.75	0.030						
Approved by 产品认证				WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。				
Remarks 备注 OUD: 81098260				制表:任玉双 审核:张秋彦 制表日期: 2024年06月24日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章				

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地址: 中国天津市东丽开发区六经路1号 website:www.tjgoldenbridge.com

电话:022-58296666 Tel:0086-22-24997375 邮编(Post Code):300800
电邮:market@tjgoldenbridge.com E-Mail:export@tjgoldenbridge.com

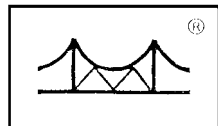


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产品质量证明书

NO. 890000359319

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号				
结构钢用CO ₂ 气保护 药芯焊丝	JQ. YJ501-1		E71T-1C	ISO 17632-A-T422PC1H5	1.6 (5KG)	24050075				
Execute Standard 执行标准			AWS A5.20及 ISO 17632							
Chemical Composition of Deposited Metal 熔敷金属化学成分 (%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他				
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值		
C	≤0.12	0.046	Tensile Strength 抗拉强度Rm (MPa)	490—660	554	Fille 角焊缝 Radiographic Inspection 焊缝射线探伤	合格	合格		
S	≤0.030	0.006		Yield Strength 屈服强度ReL或Rp0.2 (MPa)	≥400		479	II级	I级	
Mn	≤1.75	1.44			Percentage Elongation after Fracture 伸长率A (%)		≥22	27.5		
Si	≤0.90	0.35								
P	≤0.030	0.008								
			V-notch Impact Test V型缺口冲击试验	Impact Temp. 试验温度(°C)	-20					
				Absorbed Energy 吸收能量KV ₂ (J)	≥47	138、125、122				
Approved by 产品认证			CCS、LR、BV、ABS、DNV、NK、KR、RS、RINA、BKI			WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。				
Remarks 备注			Complied with CCS 《Rules for Materials and Welding》 满足CCS《材料与焊接规范》RS(Letter No. 266-381-03-241605; Certificate No. 21.10438.266; Issued on 30.09.2021 valid until 30.09.2026) OUD: 81098261			制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章				



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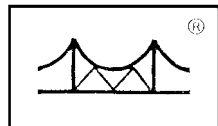
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产品质量证明书

NO. 890000359315

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
不锈钢气保护药芯焊丝	JQ-308L		E308LT1-1		1.2 (5KG)	24050177		
Execute Standard 执行标准			AWS A5.22					
Chemical Composition of Deposited Metal 熔敷金属化学成分 (%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	≤0.04	0.024	Tensile Strength 抗拉强度Rm (MPa)	≥520	558	Radiographic Inspection 焊缝射线探伤	II级	I级
S	≤0.03	0.005					合格	合格
Mn	0.5—2.5	1.37	Percentage Elongation after Fracture 伸长率A (%)	≥30	38.0	Longitudinal Face Bending 、 Back Bending Test For Welding Joint 焊接接头 纵向正弯、背弯试验	合格	合格
Si	≤1.0	0.43					合格	合格
P	≤0.04	0.020				Fillet of T-joint T型接头 角焊缝	合格	合格
Cr	18.0—21.0	18.71						
Ni	9.0—12.0	9.71						
Mo	≤0.75	0.010						
Cu	≤0.75	0.005						
Approved by 产品认证			CCS、LR、BV、ABS、DNV、RS			WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。		
Remarks 备注			Complied with CCS 《Rules for Materials and Welding》 满足CCS 《材料与焊接规范》 RS(Letter No. 266-381-06-194023; Certificate No. 22.44.01.01083.266; Issued on 15.09.2022 valid until 15.09.2027) OUD: 81098261			制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日		





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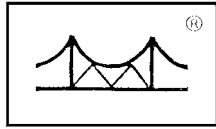
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NO. 890000359493

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
不锈钢气保护药芯焊丝	JQ-316L		E316LT1-1		1.2 (5KG)	24050178		
Execute Standard 执行标准			AWS A5.22					
Chemical Composition of Deposited Metal 熔敷金属化学成分 (%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	≤0.04	0.023	Tensile Strength 抗拉强度Rm (MPa)	≥485	568	Radiographic Inspection 焊缝射线探伤	II级	I级
S	≤0.03	0.008					合格	合格
Mn	0.5—2.5	1.43	Percentage Elongation after Fracture 伸长率A (%)	≥30	35.5	Longitudinal Face Bending 、 Back Bending Test For Welding Joint 焊接接头 纵向正弯、背弯试验	合格	合格
Si	≤1.0	0.63					合格	合格
P	≤0.04	0.024				Fillet of T-joint T型接头 角焊缝	合格	合格
Cr	17.0—20.0	18.93						
Ni	11.0—14.0	11.72						
Mo	2.0—3.0	2.48						
Cu	≤0.75	0.018						
Approved by 产品认证			CCS、LR、ABS、BV、DNV、RS			WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。		
Remarks 备注			Complied with CCS 《Rules for Materials and Welding》 满足CCS 《材料与焊接规范》 RS(Letter No. 266-381-06-194023; Certificate No. 22.44.01.01083.266; Issued on 15.09.2022 valid until 15.09.2027) OUD: 81098261			制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日		





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TIANJIN GOLDEN BRIDGE WELDING MATERIALS GROUP CO., LTD
天津市金桥焊材集团股份有限公司

MILL CERTIFICATE 产品质量证明书

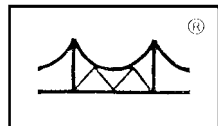
NO. 890000359041

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号			
自保护药芯焊丝	JC-26	T49ZT11-1NA	E71T-GS		0.9 (5KG)	24050260			
Execute Standard 执行标准			GB/T 10045-2018及AWS A5.20						
Chemical Composition of Deposited Metal 熔敷金属化学成分 (%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他			
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	
C	≤0.30	0.11	Tensile Strength 抗拉强度Rm (MPa)	490—670	556	Radiographic Inspection 焊缝射线探伤 Fille 角焊缝	II级	I级	
S	≤0.030	0.001		Yield Strength 屈服强度ReL (MPa)	≥390		444	合格	合格
Mn	≤2.00	0.65			Percentage Elongation after Fracture 伸长率A (%)		≥18		
Si	≤0.90	0.036							
P	≤0.030	0.008							
Al	≤2.0	1.28							
Approved by 产品认证				WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。					
Remarks 备注 OUD: 81098261				制表:任玉双 审核:张秋彦 制表日期: 2024年06月26日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章					

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电邮:market@tjgoldenbridge.com E-Mail:export@tjgoldenbridge.com



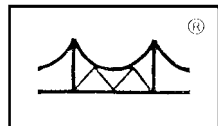
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产品质量证明书

NO. 890000359630

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
自保护药芯焊丝	JC-28		E71T-8		2.0	24050261		
Execute Standard 执行标准			AWS A5.20					
Chemical Composition of Deposited Metal 熔敷金属化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	≤0.30	0.023	Tensile Strength 抗拉强度Rm(MPa)	490—670	534	Radiographic Inspection 焊缝射线探伤 Fillet of T-joint T型接 头角焊缝	II级	I级
S	≤0.030	0.003		Yield Strength 屈服强度ReL(MPa)	≥390		448	合格
Mn	≤1.75	1.29	Percentage Elongation after Fracture 伸长率A(%)		≥22		26.5	
Si	≤0.60	0.19		V-notch Impact Test V型缺口冲击试验	Impact Temp. 试验温度(°C)		-30	
P	≤0.030	0.005		Absorbed Energy 吸收能量KV ₂ (J)	≥27	107、112、109		
Al	≤1.80	0.62						
Ni	≤0.50	0.019						
Mo	≤0.30	0.012						
Cu	≤0.35	0.013						
Approved by 产品认证				WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。				
Remarks 备注 OUD: 81098261				制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章				



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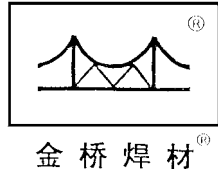
MILL CERTIFICATE 产品质量证明书

NO. 890000359983

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号			
结构钢用CO ₂ 气保护 药芯焊丝	JQ. YJ501-1		E71T-1C	ISO 17632-A-T422PC1H5	1.2 (5KG)	24050263			
Execute Standard 执行标准			AWS A5.20及ISO 17632						
Chemical Composition of Deposited Metal 熔敷金属化学成分 (%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他			
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	
C	≤0.12	0.053	Tensile Strength 抗拉强度Rm (MPa)	490—660	554	Fille 角焊缝 Radiographic Inspection 焊缝射线探伤	合格 II级	合格 I级	
S	≤0.030	0.007		Yield Strength 屈服强度ReL或Rp0.2 (MPa)	≥400				479
Mn	≤1.75	1.40			Percentage Elongation after Fracture 伸长率A (%)				≥22
Si	≤0.90	0.33		V-notch Impact Test V型缺口冲击试验					Impact Temp. 试验温度(°C)
P	≤0.030	0.010	Absorbed Energy 吸收能量KV ₂ (J)		≥47				
Approved by 产品认证				CCS、LR、BV、ABS、DNV、NK、KR、RS、RINA、BKI					WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。
Remarks 备注			Complied with CCS 《Rules for Materials and Welding》 满足CCS《材料与焊接规范》RS(Letter No. 266-381-03-241605; Certificate No. 21.10438.266; Issued on 30.09.2021 valid until 30.09.2026) OUD: 81098261			制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日			



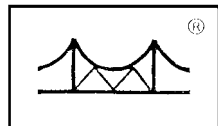


MILL CERTIFICATE
产品质量证明书

NO. 890000358685

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号			
不锈钢焊条	A102	E308-16	E308-16	ISO 3581-A-E (19 9) R 3 2	4.0	24050908			
Execute Standard 执行标准			GB/T 983-2012及AWS A5.4及ISO 3581						
Chemical Composition of Deposited Metal 熔敷金属化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他			
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	
C	≤0.08	0.043	Tensile Strength 抗拉强度Rm(MPa)	≥550	605	Fillet 角焊缝	合格	合格	
S	≤0.030	0.003		Proof strength, non-proportional extension 规定非比例延伸强度Rp0.2	≥290				411
Mn	0.50—2.50	1.26			Percentage Elongation after Fracture 伸长率A (%)				≥30
Si	≤1.00	0.78	V-notch Impact Test V型缺口冲击试验	Impact Temp. 试验温度(℃)	-20				-20
P	≤0.040	0.020							
Cr	18.00—21.00	19.43							
Ni	9.00—11.00	9.00							
Mo	≤0.75	0.010							
Cu	≤0.75	0.014							
Approved by 产品认证			CCS、BV、ABS、DNV			WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。			
Remarks 备注			Complied with CCS 《Rules for Materials and Welding》 满足CCS《材料与焊接规范》			制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日			
0UD: 81098261						QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章			



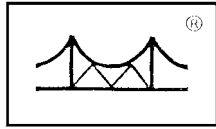
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产品质量证明书

NO. 890000359525

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
碳钢焊条	JQ·E7018	E5018	E7018 H4	ISO 2560-A-E 42 3 B 42 H5	4.0	24050981		
Execute Standard 执行标准			GB/T 5117-2012及AWS A5.1及ISO 2560					
Chemical Composition of Deposited Metal 熔敷金属化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	≤0.15	0.066	Tensile Strength 抗拉强度Rm(MPa)	≥490	592	Fillet 角焊缝 Radiographic Inspection 焊缝射线探伤 Diffusible Hydrogen Cont ent of Deposited Metal 熔敷金属扩散氢含量(热导 法 ml/100g)	合格	合格
S	≤0.035	0.010		Yield Strength 屈服强度ReL(MPa)	≥400		490	I级
Mn	≤1.60	0.93	Percentage Elongation after Fracture 伸长率A(%)		≥22		28.0	≤4.00
Si	≤0.75	0.39		V-notch Impact Test V型缺口冲击试验	Impact Temp. 试验温度(°C)		-30	-30
P	≤0.035	0.015		Absorbed Energy 吸收能量KV ₂ (J)	≥27	154、148、140		
Cr	≤0.20	0.034						
Ni	≤0.30	0.031						
Mo	≤0.30	0.005						
V	≤0.08	0.007						
Approved by 产品认证			ABS、BKI			WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。		
Remarks 备注			0UD: 81098261			制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章		



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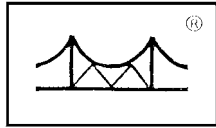
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GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
不锈钢焊条	A202	E316-16	E316-16	ISO 3581-A-E (19 12 2)R 3 2	2.5	24050982		
Execute Standard 执行标准			GB/T 983-2012及AWS A5.4及ISO 3581					
Chemical Composition of Deposited Metal 熔敷金属化学成分 (%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	≤0.08	0.023	Tensile Strength 抗拉强度Rm (MPa)	≥520	593	Fillet 角焊缝	合格	合格
S	≤0.030	0.004						
Mn	0.50—2.50	1.43	Percentage Elongation after Fracture 伸长率A (%)	≥25.0	40.0			
Si	≤1.00	0.67						
P	≤0.040	0.022						
Cr	17.00—20.00	18.46						
Ni	11.00—14.00	11.68						
Mo	2.00—3.00	2.19						
Cu	≤0.75	0.067						
Approved by 产品认证				WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。				
Remarks 备注 OUD: 81098261				制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章				

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电话:022-58296666 Tel:0086-22-24997375 邮编 (Post Code) :300300
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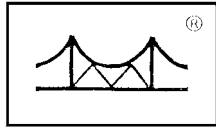
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GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
不锈钢焊条	A202	E316-16	E316-16	ISO 3581-A-E (19 12 2)R 3 2	3.2	24050983		
Execute Standard 执行标准			GB/T 983-2012及AWS A5.4及ISO 3581					
Chemical Composition of Deposited Metal 熔敷金属化学成分 (%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	≤0.08	0.021	Tensile Strength 抗拉强度Rm (MPa)	≥520	600	Fillet 角焊缝	合格	合格
S	≤0.030	0.006						
Mn	0.50—2.50	1.24	Percentage Elongation after Fracture 伸长率A (%)	≥25.0	39.0			
Si	≤1.00	0.59						
P	≤0.040	0.029						
Cr	17.00—20.00	17.51						
Ni	11.00—14.00	11.86						
Mo	2.00—3.00	2.28						
Cu	≤0.75	0.13						
Approved by 产品认证				WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。				
Remarks 备注 OUD: 81098261				制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章				

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地址: 中国天津市东丽开发区六经路1号 website:www.tjgoldenbridge.com

电话:022-58296666 Tel:0086-22-24997375 邮编 (Post Code) :300800
电邮:market@tjgoldenbridge.com E-Mail:export@tjgoldenbridge.com



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天津市金桥焊材集团股份有限公司

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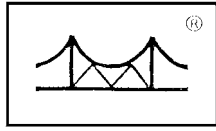
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GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
不锈钢焊条	A202	E316-16	E316-16	ISO 3581-A-E (19 12 2)R 3 2	4.0	24050984		
Execute Standard 执行标准			GB/T 983-2012及AWS A5.4及ISO 3581					
Chemical Composition of Deposited Metal 熔敷金属化学成分 (%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	≤0.08	0.031	Tensile Strength 抗拉强度Rm (MPa)	≥520	595	Fillet 角焊缝	合格	合格
S	≤0.030	0.005						
Mn	0.50—2.50	1.34	Percentage Elongation after Fracture 伸长率A (%)	≥25.0	40.0			
Si	≤1.00	0.79						
P	≤0.040	0.030						
Cr	17.00—20.00	18.78						
Ni	11.00—14.00	11.70						
Mo	2.00—3.00	2.06						
Cu	≤0.75	0.042						
Approved by 产品认证				WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。				
Remarks 备注 OUD: 81098261				制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章				

Add: No.1, LiuJing Road, DongLi Development Area, TianJin, China
地址: 中国天津市东丽开发区六经路1号 website:www.tjgoldenbridge.com

电话:022-58296666 Tel:0086-22-24997375 邮编 (Post Code) :300300
电邮:market@tjgoldenbridge.com E-Mail:export@tjgoldenbridge.com



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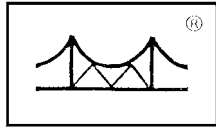
NO. 890000359497

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号			
管道焊接专用焊条	E6010	E4310	E6010	ISO 2560-A-E 38 3 C 21	4.0	24050990			
Execute Standard 执行标准			GB/T 5117-2012及AWS A5.1						
Chemical Composition of Deposited Metal 熔敷金属化学成分 (%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他			
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	
C	≤0.20	0.11	Tensile Strength 抗拉强度Rm (MPa)	≥430	539	Fillet 角焊缝 Radiographic Inspection 焊缝射线探伤	合格 II级	合格 I级	
S	≤0.035	0.017		Yield Strength 屈服强度ReL或Rp0.2 (MPa)	≥330				445
Mn	≤1.20	0.30			Percentage Elongation after Fracture 伸长率A (%)				≥22.0
Si	≤1.00	0.074	V-notch Impact Test V型缺口冲击试验	Impact Temp. 试验温度(°C)					-30
P	≤0.040	0.016			Absorbed Energy 吸收能量KV ₂ (J)	≥27	77、72、65		
Cr	≤0.20	0.027							
Ni	≤0.30	0.23							
Mo	≤0.30	0.005							
V	≤0.08	0.006							
Approved by 产品认证				WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。					
Remarks 备注 OUD: 81098261				制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章					

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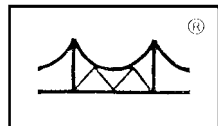
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GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号			
管道焊接专用焊条	E6010	E4310	E6010	ISO 2560-A-E 38 3 C 21	2.5	24051033			
Execute Standard 执行标准			GB/T 5117-2012及AWS A5.1及ISO 2560						
Chemical Composition of Deposited Metal 熔敷金属化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他			
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	
C	≤0.20	0.11	Tensile Strength 抗拉强度Rm (MPa)	≥420	539	Fillet 角焊缝 Radiographic Inspection 焊缝射线探伤	合格 II级	合格 I级	
S	≤0.035	0.013		Yield Strength 屈服强度ReL或Rp0.2 (MPa)	≥330				452
Mn	≤1.20	0.28			Percentage Elongation after Fracture 伸长率A (%)				≥22.0
Si	≤1.00	0.079	V-notch Impact Test V型缺口冲击试验	Impact Temp. 试验温度(°C)					-30
P	≤0.040	0.016			Absorbed Energy 吸收能量KV ₂ (J)	≥27	67、75、71		
Cr	≤0.20	0.026							
Ni	≤0.30	0.20							
Mo	≤0.30	0.005							
V	≤0.08	0.006							
Approved by 产品认证				WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。					
Remarks 备注 OUD: 81098261				制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章					

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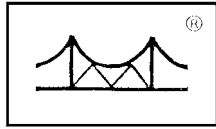
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NO. 890000360221

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
碳钢焊条	JQ·E7018	E5018	E7018 H4	ISO 2560-A-E 42 3 B 42 H5	2.5	24051071		
Execute Standard 执行标准			GB/T 5117-2012及AWS A5.1及ISO 2560					
Chemical Composition of Deposited Metal 熔敷金属化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	≤0.15	0.072	Tensile Strength 抗拉强度Rm(MPa)	≥490	587	Fillet 角焊缝 Radiographic Inspection 焊缝射线探伤 Diffusible Hydrogen Cont ent of Deposited Metal 熔敷金属扩散氢含量(热导 法 ml/100g)	合格	合格
S	≤0.035	0.009		Yield Strength 屈服强度ReL(MPa)	≥400		493	I级
Mn	≤1.60	1.06	Percentage Elongation after Fracture 伸长率A(%)		≥22		29.0	≤4.00
Si	≤0.75	0.46		V-notch Impact Test V型缺口冲击试验	Impact Temp. 试验温度(°C)		-30	-30
P	≤0.035	0.014		Absorbed Energy 吸收能量KV ₂ (J)	≥27	145、153、160		
Cr	≤0.20	0.034						
Ni	≤0.30	0.014						
Mo	≤0.30	0.006						
V	≤0.08	0.008						
Approved by 产品认证			ABS、BKI			WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。		
Remarks 备注			0UD: 81098261			制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日		





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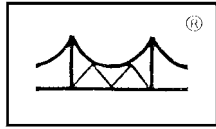
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GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号			
管道焊接专用焊条	E6010	E4310	E6010	ISO 2560-A-E 38 3 C 21	3.2	24051164			
Execute Standard 执行标准			GB/T 5117-2012及AWS A5.1及ISO 2560						
Chemical Composition of Deposited Metal 熔敷金属化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他			
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	
C	≤0.20	0.12	Tensile Strength 抗拉强度Rm (MPa)	≥430	538	Fillet 角焊缝 Radiographic Inspection 焊缝射线探伤	合格 II级	合格 I级	
S	≤0.035	0.015		Yield Strength 屈服强度ReL或Rp0.2 (MPa)	≥330				445
Mn	≤1.20	0.32			Percentage Elongation after Fracture 伸长率A (%)				≥22.0
Si	≤1.00	0.089	V-notch Impact Test V型缺口冲击试验	-30					-30
P	≤0.040	0.017							
Cr	≤0.20	0.024							
Ni	≤0.30	0.10							
Mo	≤0.30	0.005							
V	≤0.08	0.007							
Approved by 产品认证				WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。					
Remarks 备注 OUD: 81098261				制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章					

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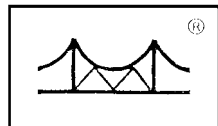
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GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号				
碳钢焊条	J38. 12M	E4313	E6013	ISO 2560-A-E 35 0 R 12	4.0	24051709				
Execute Standard 执行标准			GB/T 5117-2012及AWS A5.1及ISO 2560							
Chemical Composition of Deposited Metal 熔敷金属化学成分 (%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他				
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值		
C	≤0.20	0.085	Tensile Strength 抗拉强度Rm (MPa)	≥430	500	Fillet 角焊缝 Radiographic Inspection 焊缝射线探伤	合格 II级	合格 I级		
S	≤0.035	0.016		Yield Strength 屈服强度ReL (MPa)	≥330				400	
Mn	≤1.20	0.40			Percentage Elongation after Fracture 伸长率A (%)				≥17.0	26.0
Si	≤1.00	0.24	V-notch Impact Test V型缺口冲击试验	Impact Temp. 试验温度(°C)					0	0
P	≤0.040	0.028								
Cr	≤0.20	0.031								
Ni	≤0.30	0.010								
Mo	≤0.30	0.005								
V	≤0.08	0.012								
Approved by 产品认证				WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。						
Remarks 备注 OUD: 81098344				制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章						

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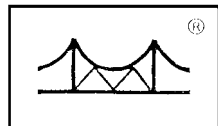
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NO. 890000360405

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
气保护实心焊丝	JQ.MG50-6	G49A4UC1S6 (ER50-6)	ER70S-6		0.8(5KG)	24052882		
Execute Standard 执行标准			GB/T 8110-2020及AWS A5.18及EN ISO 14341-A-G 42 4 M21/C1 3Si1					
Chemical Composition of Welding Wires 焊丝化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	0.06—0.14	0.071	Tensile Strength 抗拉强度Rm(MPa)	520—640	549	Radiographic Inspection 焊缝射线探伤	II级	I级
S	≤0.025	0.011						
Mn	1.40—1.60	1.45						
Si	0.80—1.00	0.87	Yield Strength 屈服强度ReL或Rp0.2(MPa)	≥420	442			
P	≤0.025	0.011	Percentage Elongation after Fracture 伸长率A(%)	≥22.0	27.5			
Cr	≤0.15	0.029						
Ni	≤0.15	0.011	V-notch Impact Test V型缺口冲击试验	Impact Temp. 试验温度(°C)	-40			
Mo	≤0.15	0.004		Absorbed Energy 吸收能量KV ₂ (J)	≥47	79、82、88		
Cu	≤0.35	0.10						
V	≤0.03	0.001						
Al	≤0.02	0.009						
Ti+Zr	≤0.15	0.004						
Approved by 产品认证			CCS、LR、BV、ABS、DNV、NK、KR、RS及德国TüV、DB、CE			WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。		
Remarks 备注			Complied with CCS 《Rules for Materials and Welding》 满足CCS《材料与焊接规范》RS(Letter No. 266-381-03-267813; Certificate No. 19.10448.266; Issued on 20.09.2019 valid until 20.09.2024) OUD: 81098261			制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日		





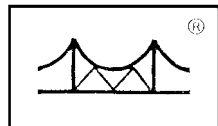
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NO. 890000360390

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
气保护实心焊丝	JQ. MG50-6	G49A4UC1S6 (ER50-6)	ER70S-6		0.9 (5KG)	24052887		
Execute Standard 执行标准			GB/T 8110-2020及AWS A5.18及EN ISO 14341-A-G 42 4 M21/C1 3Si1					
Chemical Composition of Welding Wires 焊丝化学成分 (%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	0.06—0.14	0.067	Tensile Strength 抗拉强度Rm (MPa)	520—640	545	Radiographic Inspection 焊缝射线探伤	II级	I级
S	≤0.025	0.013						
Mn	1.40—1.60	1.46						
Si	0.80—1.00	0.85						
P	≤0.025	0.012	Yield Strength 屈服强度ReL或Rp0.2 (MPa)	≥420	437			
Cr	≤0.15	0.028	Percentage Elongation after Fracture 伸长率A (%)	≥22.0	28.0			
Ni	≤0.15	0.009	V-notch Impact Test V型缺口冲击试验	Impact Temp. 试验温度(°C)	-40	-40		
Mo	≤0.15	0.004		Absorbed Energy 吸收能量KV ₂ (J)	≥47	76、79、88		
Cu	≤0.35	0.10						
V	≤0.03	0.001						
Al	≤0.02	0.008						
Ti+Zr	≤0.15	0.003						
Approved by 产品认证			LR、ABS、DNV、NK、KR、RS及德国TüV、DB、CE			WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。		
Remarks 备注			RS (Letter No. 266-381-03-267813; Certificate No. 19.10448.266; Issued on 20.09.2019 valid until 20.09.2024) OUD: 81098261			制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章		



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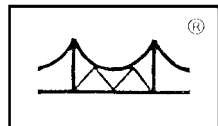
MILL CERTIFICATE
产品质量证明书

NO. 890000360391

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号		Size 规格	Batch No. 批号	
气保护实心焊丝	JQ.MG50-6	G49A4UC1S6 (ER50-6)	ER70S-6			1.2(5KG)	24052888	
Execute Standard 执行标准			GB/T 8110-2020及AWS A5.18及EN ISO 14341-A-G 42 4 M21/C1 3Si1					
Chemical Composition of Welding Wires 焊丝化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	0.06—0.14	0.072	Tensile Strength 抗拉强度Rm(MPa)	520—640	553	Radiographic Inspection 焊缝射线探伤	II级	I级
S	≤0.025	0.015						
Mn	1.40—1.60	1.46						
Si	0.80—1.00	0.85						
P	≤0.025	0.011	Yield Strength 屈服强度ReL或Rp0.2(MPa)	≥420	445			
Cr	≤0.15	0.029	Percentage Elongation after Fracture 伸长率A(%)	≥22.0	27.0			
Ni	≤0.15	0.010	V-notch Impact Test V型缺口冲击试验	Impact Temp. 试验温度(℃)	-40	-40		
Mo	≤0.15	0.005		Absorbed Energy 吸收能量KV ₂ (J)	≥47	75、86、89		
Cu	≤0.35	0.12						
V	≤0.03	0.001						
Al	≤0.02	0.007						
Ti+Zr	≤0.15	0.004						
Approved by 产品认证			CCS、LR、BV、ABS、DNV、NK、KR、RS及德国TüV、DB、CE			WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。		
Remarks 备注			Complied with CCS 《Rules for Materials and Welding》 满足CCS《材料与焊接规范》RS(Letter No. 266-381-03-267813; Certificate No. 19.10448.266; Issued on 20.09.2019 valid until 20.09.2024) OUD: 81098261			制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日		





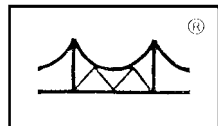
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MILL CERTIFICATE
产品质量证明书

NO. 890000359112

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
碳钢氩弧焊丝	JQ.TG50	W49A36	ER70S-6		3.2(20KG)	24053911		
Execute Standard 执行标准			GB/T 39280-2020及AWS A5.18					
Chemical Composition of Welding Wires 焊丝化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	0.060—0.150	0.070	Tensile Strength 抗拉强度Rm(MPa)	490—670	565	Radiographic Inspection 焊缝射线探伤	II级	I级
S	≤0.025	0.015						
Mn	1.40—1.85	1.45						
Si	0.80—1.15	0.87	Yield Strength 屈服强度Rp0.2(MPa)	≥390	453			
P	≤0.025	0.016	Percentage Elongation after Fracture 伸长率A(%)	≥18.0	28.5			
Cr	≤0.150	0.017	V-notch Impact Test V型缺口冲击试验	Impact Temp. 试验温度(°C)	-30			
Ni	≤0.150	0.008		Absorbed Energy 吸收能量KV ₂ (J)	≥27	118、122、127		
Mo	≤0.150	0.006						
V	≤0.030	0.003						
Cu	≤0.500	0.10						
Approved by 产品认证			CCS、LR、BV、ABS、DNV、RINA			WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。		
Remarks 备注			Complied with CCS 《Rules for Materials and Welding》 满足CCS《材料与焊接规范》			制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日		
OUD: 81098261						QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章		



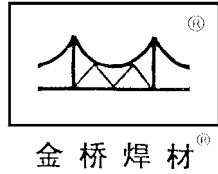
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MILL CERTIFICATE
产品质量证明书

NO. 890000359230

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
碳钢氩弧焊丝	JQ.TG50	W49A36	ER70S-6		2.4(20KG)	24053916		
Execute Standard 执行标准			GB/T 39280-2020及AWS A5.18					
Chemical Composition of Welding Wires 焊丝化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	0.060—0.150	0.067	Tensile Strength 抗拉强度Rm(MPa)	490—670	550	Radiographic Inspection 焊缝射线探伤	II级	I级
S	≤0.025	0.009						
Mn	1.40—1.85	1.47						
Si	0.80—1.15	0.82	Yield Strength 屈服强度Rp0.2(MPa)	≥390	444			
P	≤0.025	0.016	Percentage Elongation after Fracture 伸长率A(%)	≥18.0	29.5			
Cr	≤0.150	0.025						
Ni	≤0.150	0.011	V-notch Impact Test V型缺口冲击试验	Impact Temp. 试验温度(°C)	-30			
Mo	≤0.150	0.007		Absorbed Energy 吸收能量KV ₂ (J)	≥27	109、117、122		
V	≤0.030	0.003						
Cu	≤0.500	0.10						
Approved by 产品认证				CCS、LR、BV、ABS、DNV、RINA、NK				
Remarks 备注				Complied with CCS 《Rules for Materials and Welding》 满足CCS《材料与焊接规范》				
				<p>WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS.</p> <p>兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。</p> <p>制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日</p> <p>QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章</p>				

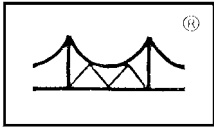


MILL CERTIFICATE
产品质量证明书

NO. 890000359335

GB/T 19001-2016/ISO 9001:2015

Commodity 品名	Trade Model 牌号	GB Model 国标型号	AWS Model 美标型号	ISO Model ISO型号	Size 规格	Batch No. 批号		
碳钢氩弧焊丝	JQ.TG50	W49A36	ER70S-6		1.6(20KG)	24053920		
Execute Standard 执行标准			GB/T 39280-2020及AWS A5.18					
Chemical Composition of Welding Wires 焊丝化学成分(%)			Mechanical Properties of Deposited Metal 熔敷金属力学性能			Others 其他		
Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值	Items 项目	Requirement 标准要求	Test Result 实测值
C	0.060—0.150	0.067	Tensile Strength 抗拉强度Rm(MPa)	490—670	558	Radiographic Inspection 焊缝射线探伤	II级	I级
S	≤0.025	0.014						
Mn	1.40—1.85	1.49						
Si	0.80—1.15	0.83	Yield Strength 屈服强度Rp0.2(MPa)	≥390	453			
P	≤0.025	0.013	Percentage Elongation after Fracture 伸长率A(%)	≥18.0	28.0			
Cr	≤0.150	0.024						
Ni	≤0.150	0.019	V-notch Impact Test V型缺口冲击试验	Impact Temp. 试验温度(℃)	-30			
Mo	≤0.150	0.007		Absorbed Energy 吸收能量KV ₂ (J)	≥27	103、125、114		
V	≤0.030	0.001						
Cu	≤0.500	0.076						
Approved by 产品认证			NK WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS. 兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。					
Remarks 备注			制表:任玉双 审核:张秋彦 制表日期: 2024年06月25日 QUALITY ASSURANCE DEPARTMENT 质量保障部 质量检验专用章					
OUD: 81098261								



金桥焊材®

Tianjin Golden Bridge Welding Materials Group Co., Ltd

天津市金桥焊材集团股份有限公司

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Fax: +86-022-24992135

E-Mail: Market@TJGoldenBridge.com

WebSite: WWW.TJGoldenBridge.com

产品质量证明书 Mill Certificate

NO. 890000358802

质量管理体系 Quality Management System

GB/T 19001-2016 / ISO9001: 2015

产品名称	Commodity	铝及铝合金氩弧焊丝 Aluminium and aluminium alloy wire
牌号	Trade Mode	JQ. SA14043
执行标准	Standard Designation	AWS A5.10及EN ISO 18273
国标型号	GB Model	
美标型号	AWS Model	ER4043
ISO型号	ISO Model	A14043
规格	Size	3.2 (5KG)
批号	Batch No.	24055401

焊丝化学成分 (%)

Chemical composition in % of welding wires

项目 Items	Mn	Si	Cu	Fe	Mg	Zn	Ti	Be		
标准值 Requirement	≤0.05	4.5—6.0	≤0.30	≤0.8	≤0.05	≤0.10	≤0.20	≤0.0003		
实测值 Test Result	0.002	4.60	0.024	0.12	0.002	0.024	0.026	0.0002		

焊缝射线探伤: 1级

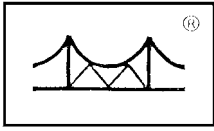
Radiographic Inspection: Rating 1

according to: GB/T 37910

产品认证 Approved by:	兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。
备注 Remarks	<p>WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TEST RESULTS ARE IN COMPLIANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESS OF OUR PRODUCT IS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS.</p> <p>授权人:  Authorized representative</p> <p>制表日期 Datum/date: 25.06.2024</p>

质量保障部
QUALITY ASSURANCE DEPARTMENT

质量检验专用章



金桥焊材®

Tianjin Golden Bridge Welding Materials Group Co., Ltd

天津市金桥焊材集团股份有限公司

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产品质量证明书 Mill Certificate

NO. 890000358977

质量管理体系 Quality Management System

GB/T 19001-2016 / ISO9001: 2015

产品名称	Commodity	铝及铝合金氩弧焊丝 Aluminium and aluminium alloy wire
牌号	Trade Mode	JQ. SA14043
执行标准	Standard Designation	GB/T 10858及AWS A5.10/A5.10M及BS EN ISO 18273
国标型号	GB Model	SA14043
美标型号	AWS Model	R4043
ISO型号	ISO Model	A14043
规格	Size	2.4 (5KG)
批号	Batch No.	24055404

焊丝化学成分 (%)

Chemical composition in % of welding wires

项目 Items	Mn	Si	Cu	Fe	Mg	Zn	Ti	Be		
标准值 Requirement	≤0.05	4.5—6.0	≤0.30	≤0.8	≤0.05	≤0.10	≤0.20	≤0.0003		
实测值 Test Result	0.002	4.60	0.024	0.12	0.002	0.024	0.026	0.0002		

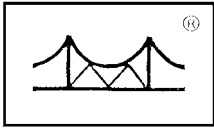
焊缝射线探伤: 1级

Radiographic Inspection: Rating 1

according to: GB/T 37910

产品认证 Approved by: CE	兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。
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产品质量证明书 Mill Certificate

NO. 890000359045

质量管理体系 Quality Management System

GB/T 19001-2016 / ISO9001: 2015

产品名称	Commodity	铝及铝合金氩弧焊丝 Aluminium and aluminium alloy wire
牌号	Trade Mode	JQ. SA15356
执行标准	Standard Designation	AWS A5.10/A5.10M及BS EN ISO 18273
国标型号	GB Model	SA15356
美标型号	AWS Model	R5356
ISO型号	ISO Model	A15356
规格	Size	2.4 (5KG)
批号	Batch No.	24055409

焊丝化学成分 (%)

Chemical composition in % of welding wires

项目 Items	Mn	Si	Cu	Fe	Mg	Zn	Ti	Be	Cr	
标准值 Requirement	0.05—0.20	≤0.25	≤0.10	≤0.40	4.5—5.5	≤0.10	0.06—0.20	≤0.0003	0.05—0.20	
实测值 Test Result	0.15	0.033	0.006	0.086	4.79	0.011	0.079	0.0002	0.077	

焊缝射线探伤: 1级

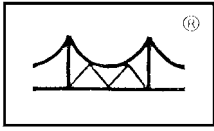
Radiographic Inspection: Rating 1

according to: GB/T 37910

产品认证 Approved by:	兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。
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质量保障部
QUALITY ASSURANCE DEPARTMENT

质量检验专用章



金桥焊材®

Tianjin Golden Bridge Welding Materials Group Co., Ltd

天津市金桥焊材集团股份有限公司

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产品质量证明书 Mill Certificate

NO. 890000359245

质量管理体系 Quality Management System

GB/T 19001-2016 / ISO9001: 2015

产品名称	Commodity	铝及铝合金氩弧焊丝 Aluminium and aluminium alloy wire
牌号	Trade Mode	JQ. SA15356
执行标准	Standard Designation	AWS A5.10/A5.10M及EN ISO 18273
国标型号	GB Model	SA15356
美标型号	AWS Model	R5356
ISO型号	ISO Model	A15356
规格	Size	1.6 (5KG)
批号	Batch No.	24055413

焊丝化学成分 (%)

Chemical composition in % of welding wires

项目 Items	Mn	Si	Cu	Fe	Mg	Zn	Ti	Cr	Be	
标准值 Requirement	0.05—0.20	≤0.25	≤0.10	≤0.40	4.50—5.50	≤0.10	0.06—0.20	0.05—0.20	≤0.0003	
实测值 Test Result	0.15	0.033	0.006	0.086	4.79	0.011	0.079	0.077	0.0002	

焊缝射线探伤: 1级

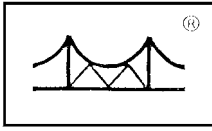
Radiographic Inspection: Rating 1

according to: GB/T 37910

产品认证 Approved by:	兹证明此报告所载实测结果皆正确并符合适用规范要求。产品的生产制造过程与认可条件保持一致。我们承诺对该产品质量负责。
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质量保障部
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质量检验专用章



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Tianjin Golden Bridge Welding Materials Group Co., Ltd

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产品质量证明书 Mill Certificate

NO. 890000359501

质量管理体系 Quality Management System

GB/T 19001-2016 / ISO9001: 2015

产品名称	Commodity	铝及铝合金氩弧焊丝 Aluminium and aluminium alloy wire
牌号	Trade Mode	JQ. SA14043
执行标准	Standard Designation	AWS A5.10及EN ISO 18273
国标型号	GB Model	
美标型号	AWS Model	ER4043
ISO型号	ISO Model	A14043
规格	Size	1.6 (5KG)
批号	Batch No.	24055416

焊丝化学成分 (%)

Chemical composition in % of welding wires

项目 Items	Mn	Si	Cu	Fe	Mg	Zn	Ti	Be		
标准值 Requirement	≤0.05	4.5—6.0	≤0.30	≤0.8	≤0.05	≤0.10	≤0.20	≤0.0003		
实测值 Test Result	0.001	4.61	0.045	0.14	0.002	0.044	0.022	0.0002		

焊缝射线探伤: 1级

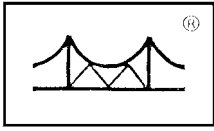
Radiographic Inspection: Rating 1

according to: GB/T 37910

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产品质量证明书 Mill Certificate

NO. 890000359503

质量管理体系 Quality Management System

GB/T 19001-2016 / ISO9001: 2015

产品名称	Commodity	铝及铝合金氩弧焊丝 Aluminium and aluminium alloy wire
牌号	Trade Mode	JQ. SA15356
执行标准	Standard Designation	AWS A5.10及BS EN ISO 18273
国标型号	GB Model	
美标型号	AWS Model	R5356
ISO型号	ISO Model	A15356
规格	Size	3.2 (5KG)
批号	Batch No.	24055418

焊丝化学成分 (%)

Chemical composition in % of welding wires

项目 Items	Mn	Si	Cu	Fe	Mg	Zn	Ti	Be	Cr	
标准值 Requirement	0.05—0.20	≤0.25	≤0.10	≤0.40	4.5—5.5	≤0.10	0.06—0.20	≤0.0003	0.05—0.20	
实测值 Test Result	0.15	0.033	0.006	0.086	4.79	0.011	0.079	0.0002	0.077	

焊缝射线探伤: 1级

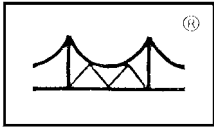
Radiographic Inspection: Rating 1

according to: GB/T 37910

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产品质量证明书 Mill Certificate

NO. 890000359255

质量管理体系 Quality Management System

GB/T 19001-2016 / ISO9001: 2015

产品名称	Commodity	铝及铝合金气保焊丝 Aluminium and aluminium alloy wire
牌号	Trade Mode	JQ • SA15356
执行标准	Standard Designation	AWS A5.10/A5.10及BS EN ISO 18273
国标型号	GB Model	SA15356
美标型号	AWS Model	ER5356
ISO型号	ISO Model	A15356
规格	Size	0.9 (7KG)
批号	Batch No.	24055509

焊丝化学成分 (%)

Chemical composition in % of welding wires

项目 Items	Mn	Si	Cu	Fe	Mg	Zn	Ti	Cr	Be	
标准值 Requirement	0.05—0.20	≤0.25	≤0.10	≤0.40	4.50—5.50	≤0.10	0.06—0.20	0.05—0.20	≤0.0003	
实测值 Test Result	0.15	0.033	0.006	0.086	4.79	0.011	0.079	0.077	0.0002	

焊缝射线探伤: 1级

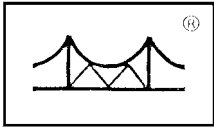
Radiographic Inspection: Rating 1

according to: GB/T 37910

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产品质量证明书 Mill Certificate

NO. 890000359445

质量管理体系 Quality Management System

GB/T 19001-2016 / ISO9001: 2015

产品名称	Commodity	铝及铝合金气保焊丝 Aluminium and aluminium alloy wire
牌号	Trade Mode	JQ • SA15356
执行标准	Standard Designation	AWS A5.10/A5.10M及BS EN ISO 18273
国标型号	GB Model	SA1 5356
美标型号	AWS Model	ER5356
ISO型号	ISO Model	A1 5356
规格	Size	1.2 (7KG)
批号	Batch No.	24055513

焊丝化学成分 (%)

Chemical composition in % of welding wires

项目 Items	Mn	Si	Cu	Fe	Mg	Zn	Ti	Cr	Be	
标准值 Requirement	0.05—0.20	≤0.25	≤0.10	≤0.40	4.50—5.50	≤0.10	0.06—0.20	0.05—0.20	≤0.0003	
实测值 Test Result	0.15	0.033	0.006	0.086	4.79	0.011	0.079	0.077	0.0002	

焊缝射线探伤: 1级

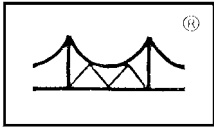
Radiographic Inspection: Rating 1

according to: GB/T 37910

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产品质量证明书 Mill Certificate

NO. 890000359850

质量管理体系 Quality Management System

GB/T 19001-2016 / ISO9001: 2015

产品名称	Commodity	铝及铝合金气保焊丝 Aluminium and aluminium alloy wire
牌号	Trade Mode	JQ • SA15356
执行标准	Standard Designation	AWS A5.10/A5.10及BS EN ISO 18273
国标型号	GB Model	SA1 5356
美标型号	AWS Model	ER5356
ISO型号	ISO Model	A1 5356
规格	Size	0.8 (7KG)
批号	Batch No.	24055519

焊丝化学成分 (%)

Chemical composition in % of welding wires

项目 Items	Mn	Si	Cu	Fe	Mg	Zn	Ti	Cr	Be	
标准值 Requirement	0.05—0.20	≤0.25	≤0.10	≤0.40	4.50—5.50	≤0.10	0.06—0.20	0.05—0.20	≤0.0003	
实测值 Test Result	0.15	0.033	0.006	0.086	4.79	0.011	0.079	0.077	0.0002	

焊缝射线探伤: 1级

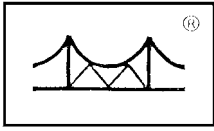
Radiographic Inspection: Rating 1

according to: GB/T 37910

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产品质量证明书 Mill Certificate

NO. 890000359852

质量管理体系 Quality Management System

GB/T 19001-2016 / ISO9001: 2015

产品名称	Commodity	铝及铝合金气保焊丝 Aluminium and aluminium alloy wire
牌号	Trade Mode	JQ. SA14043
执行标准	Standard Designation	AWS A5.10及EN ISO 18273
国标型号	GB Model	SA1 4043
美标型号	AWS Model	ER4043
ISO型号	ISO Model	A1 4043
规格	Size	0.8 (7Kg)
批号	Batch No.	24055521

焊丝化学成分 (%)

Chemical composition in % of welding wires

项目 Items	Mn	Si	Cu	Fe	Mg	Zn	Ti	Be		
标准值 Requirement	≤0.05	4.50—6.00	≤0.30	≤0.80	≤0.05	≤0.10	≤0.20	≤0.0003		
实测值 Test Result	0.009	4.60	0.026	0.11	0.008	0.039	0.026	0.0002		

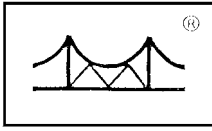
焊缝射线探伤: 1级

Radiographic Inspection: Rating 1

according to: GB/T 37910

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产品质量证明书 Mill Certificate

NO. 890000359889

质量管理体系 Quality Management System

GB/T 19001-2016 / ISO9001: 2015

产品名称	Commodity	铝及铝合金气保焊丝 Aluminium and aluminium alloy wire
牌号	Trade Mode	JQ. SA14043
执行标准	Standard Designation	AWS A5.10及EN ISO 18273
国标型号	GB Model	
美标型号	AWS Model	ER4043
ISO型号	ISO Model	A14043
规格	Size	0.9(7KG)
批号	Batch No.	24055522

焊丝化学成分 (%)

Chemical composition in % of welding wires

项目 Items	Mn	Si	Cu	Fe	Mg	Zn	Ti	Be		
标准值 Requirement	≤0.05	4.50—6.00	≤0.30	≤0.80	≤0.05	≤0.10	≤0.20	≤0.0003		
实测值 Test Result	0.001	4.65	0.042	0.085	0.002	0.046	0.023	0.0002		

焊缝射线探伤: 1级

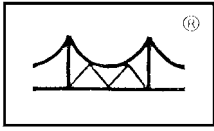
Radiographic Inspection: Rating 1

according to: GB/T 37910

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WebSite: WWW.TJGoldenBridge.com

产品质量证明书 Mill Certificate

NO. 890000360274

质量管理体系 Quality Management System

GB/T 19001-2016 / ISO9001: 2015

产品名称	Commodity	铝及铝焊丝气保焊丝 Aluminium and aluminium alloy wire
牌号	Trade Mode	JQ. SA14043
执行标准	Standard Designation	AWS A5.10及BS EN ISO 18273
国标型号	GB Model	SA14043
美标型号	AWS Model	ER4043
ISO型号	ISO Model	A14043
规格	Size	1.2 (7KG)
批号	Batch No.	24055527

焊丝化学成分 (%)

Chemical composition in % of welding wires

项目 Items	Mn	Si	Cu	Fe	Mg	Zn	Ti	Be		
标准值 Requirement	≤0.05	4.5—6.0	≤0.30	≤0.8	≤0.05	≤0.10	≤0.20	≤0.0003		
实测值 Test Result	0.002	4.60	0.024	0.12	0.002	0.024	0.026	0.0002		

焊缝射线探伤: 1级

Radiographic Inspection: Rating 1

according to: GB/T 37910

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