



Inspection Certificate Type 3.1 DIN EN10204

Date:10/10/2022

Quality Management System

GB/T 8110-2020 / ISO9001: 2015

Inspection Certificate 3.1

According to ISO 14341-A-G42 4

M21 3Si1

NO. 890000312326

Commodity	MIG/MAG Welding Wire / SCHWEISSDRAHT
Trade Mode	JQ.MG50-6
Standard Designation	AWS A5.18 (ER70S-6) ISO 14341-A-G42 4 M21 3Si1
Size	0.8mm(15KG)
Batch No.	22083138
Quantity	3,240.00kg

Chemical Composition in % of Welding Wires

C	S	Mn	Si	P	Cr	Ni	Mo	V	Cu	Al	Ti+Zr
0.072	0.014	1.47	0.90	0.012	0.023	0.012	0.009	0.002	0.10	0.006	0.002

Mechanical Properties of Deposited Metal

Tensile Test	According To: ISO 5178				
Impact Test	According To: ISO 9016				
Tensile Strength R _m (MPa)	Yield Strength R _{eL} /R _{p0.2} (MPa)	Percentage Elongation After Fracture A (L= 5D) %	Impact Temp. T (°C)	Absorbed Energy KV ₂ (J)	Shielding Gas
540	433	28.5	-40	76、84、68	M21

Radiographic Inspection: Rating I

Approved by CCS、LR、BV、ABS、DNV、NK、KR 、RS、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.	
Remarks Complied with European Standard DIN EN102040UD: 80937363	this certificate was issued by DP-equipment and does not require signature Datum/date: 10.10.2022	



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GB/T 8110-2020 / ISO9001: 2015

Inspection Certificate 3.1

According to ISO 14341-A-G42 4

M21 3Si1

NO. 890000312218

Commodity	MIG/MAG Welding Wire / SCHWEISSDRAHT
Trade Mode	JQ.MG50-6
Standard Designation	AWS A5.18 (ER70S-6) ISO 14341-A-G42 4 M21 3Si1
Size	1.2mm(15KG)
Batch No.	22082848
Quantity	9,720.00kg

Chemical Composition in % of Welding Wires

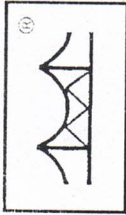
C	S	Mn	Si	P	Cr	Ni	Mo	V	Cu	Al	Ti+Zr
0.069	0.010	1.46	0.88	0.010	0.051	0.009	0.006	0.002	0.10	0.006	0.002

Mechanical Properties of Deposited Metal

Tensile Test	According To: ISO 5178				
Impact Test	According To: ISO 9016				
Tensile Strength R _m (MPa)	Yield Strength R _{eL} /R _{p0.2} (MPa)	Percentage Elongation After Fracture A (L= 5D) %	Impact Temp. T (°C)	Absorbed Energy KV ₂ (J)	Shielding Gas
553	446	26.5	-40	73、77、83	M21

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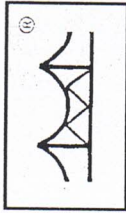
金桥焊材®

MILL CERTIFICATE
产品质量证明书

NO. 8900000311594

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	J38.12 (J421)	E4313	E6013	ISO 2560-A-E 35 0 R 12	3.2	22081621
Execute Standard 执行标准						
Chemical Composition of Deposited Metal 熔敷金属化学成分 (%)						
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	Others 其他
C	≤0.20	0.063	Tensile Strength 抗拉强度 R_m (N/mm ²)	430—560	500	Requirement 标准要求 合格 II级 Fillet 角焊缝 Radiographic Inspection 焊缝射线探伤 合格 I级
S	≤0.035	0.019	Yield Strength 屈服强度 R_{eL} (MPa)	≥330	400	
Mn	≤1.20	0.30	Percentage Elongation after Fracture 伸长率A (%)	≥22	28.5	
Si	≤1.00	0.16	Impact Temp. 试验温度 (°C)	0	0	
P	≤0.040	0.024	Absorbed Energy 吸收能量KV ₂ (J)	≥47	70、71、72	
Cr	≤0.20	0.042				
Ni	≤0.30	0.008				
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
Remarks 备注						制表:程香裕 制表日期: 2022年10月10日 审核:张秋彦



金桥焊材®

MILL CERTIFICATE
产品质量证明书

NO. 8900000312504

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	J38.12 (J421)	E4313	E6013	ISO 2560-A-E 35 0 R 12	4.0	22081678
Execute Standard 执行标准						
Chemical Composition of Deposited Metal 熔敷金属化学成分 (%)						
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	Others 其他
C	≤0.20	0.073	Tensile Strength 抗拉强度 R_m (N/mm ²)	430—560	505	
S	≤0.035	0.014	Yield Strength 屈服强度 R_{eL} (MPa)	≥330	405	
Mn	≤1.20	0.40	Percentage Elongation after Fracture 伸长率A (%)	≥22	29.0	
Si	≤1.00	0.19	Impact Temp. 试验温度 (°C)	0	0	
P	≤0.040	0.024	Absorbed Energy 吸收能量KV ₂ (J)	≥47	75、76、77	
Cr	≤0.20	0.030	V-notch Impact Test V型缺口冲击试验			
Ni	≤0.30	0.015				
Mo	≤0.30	0.005				
V	≤0.08	0.008				
CCS、LR、BV、ABS、DNV、NK、BKI						
Approved by 产品认证						
Complied with CCS 《Rules for Materials and Welding》 满足CCS 《材料与焊接》						
Remarks 备注						
制表:程香裕 审核:张秋彦 制表日期: 2022年10月10日						
OUD: 80937362						

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MILL CERTIFICATE
产品质量证明书

NO. 890000300584

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	E7018	E5018	E7018	EN ISO 2560-A-E 42 3 B 32 H10	4.0	22020971
Execute Standard 执行标准						
GB/T 5117-2012及AWS A5.1及EN ISO 2560						
Chemical Composition of Deposited Metal 熔敷金属化学成分(%)						
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	Others 其他
C	≤0.12	0.070	Tensile Strength 抗拉强度Rm(MPa)	490—660	602	合格 I级
S	≤0.035	0.008	Yield Strength 屈服强度ReL(MPa)	≥400	500	
Mn	≤1.60	1.39	Percentage Elongation after Fracture 伸长率A(%)	≥22	29.0	
Si	≤0.75	0.67	Impact Temp. 试验温度(℃)	-30	-30	
P	≤0.035	0.015	Absorbed Energy 吸收能量KV ₂ (J)	≥27	137、143、149	
Cr	≤0.20	0.031	Impact Temp. 试验温度(℃)	-20	-20	
Ni	≤0.30	0.011	Absorbed Energy 吸收能量KV ₂ (J)	≥47	149、158、169	
Mo	≤0.30	0.006	V-notch Impact Test V型缺口冲击试验			
V	≤0.08	0.006	V-notch Impact Test V型缺口冲击试验			
Approved by 产品认证						
Remarks 备注						

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制表:王品 审核:
制表日期: 2022年03月31日
张秋彦
QUALITY ASSURANCE DEPARTMENT
质量部