

Inspection Certificate 3.1



Product Line **MMA**
Product **LE B-248**
Size(s) mm **3.2X350**
Item No. **71G200370032**
Lot/Batch **T2MS220123**
Class **AWS A5.1 E7018**
EN ISO 2560-A E 42 3 B 42 H10

Customer Ref **February/01**
Our Reference **0816910726 - 24.02.2022**
Quantity **2160.0 KG**
Customer **ICS ACSEAL GAZ SRL**

No. 13 PADURII STREET, SECTOR
CHISINAU MD 2002
Moldavia

Chemical analysis (%)

According to EN10204 3.1

C	Si	Mn	P	S	Cr	Ni	Mo	Nb	Cu	V
0.054	0.57	1.10	0.014	0.011	0.05	0.04	0.01	0.01	0.09	0.01

Mechanical tests, all weld metal

According to EN10204 2.2

Tensile testing

Impact testing

Cond.	Temp. °C	Rp0.2 MPa	Rm MPa	A5 %	Temp. °C	KV J
AW	20	485	556	29	-30	142

Remarks

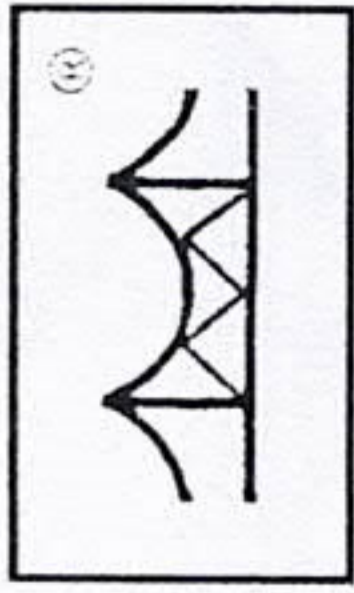
The product identified above has been manufactured, tested and supplied in compliance with a certified ISO 9001 Quality Assurance Programme.

Company
TOSB-TAYSAD ORGANIZE SANAYI
BOLGESI
2.CADDE NO:5 ÇAYIROVA
41435 KOCAELI

Printed
By **Pelin Sahin**
Function **Junior Export Services**
Specialist
Date **04/MAR/2022**

Cert. No.
01665580
ZEU_CMN_1





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MILL CERTIFICATE 产品质量证明书

NO. 8900000344338

GB/T 19001-2016/ISO 9001:2015

Commodity 品名 碳钢焊条	Trade Model 牌号 E7018	GB Model 国标型号 E5018	AWS Model 美标型号 E7018	ISO Model ISO型号 EN ISO 2560-A-E 42 3 B 32 H10	Size 规格 4.0	Batch No. 批号 23101054
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	0.069	Tensile Strength 抗拉强度Rm(MPa)	490—660	583	合格
S	≤0.035	0.014	Yield Strength 屈服强度ReL(MPa)	≥400	495	I级
Mn	≤1.60	1.30	Percentage Elongation after Fracture 伸长率A (%)	≥22	28.5	
Si	≤0.75	0.62	V-notch Impact Test V型缺口冲击试验	-30	-30	
P	≤0.035	0.014	Absorbed Energy 吸收能量KV ₂ (J)	≥27	140、151、159	
Cr	≤0.20	0.039	V-notch Impact Test V型缺口冲击试验	-20	-20	
Ni	≤0.30	0.015	Absorbed Energy 吸收能量KV ₂ (J)	≥47	155、163、171	
Mo	≤0.30	0.005				
V	≤0.08	0.007				

Approved by
产品认证

CCS、LR、ABS、DNV、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

Complied with CCS 《Rules for Materials and Welding》 满足CCS《材料与焊接》 接规范》

Remarks
备注

制表:任玉双
制表日期: 2023年11月24日

审核: 张秋彦

QUALITY ASSURANCE DEPARTMENT
质量保障部

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Superon Schweisstechnik (I) Ltd

191-D, Sector- IV, Phase- II, IMT Manesar Gurgaon,
Haryana- 122050



An ISO 9001 , ISO 14001 &
BS OHSAS 18001 Certified Company

TEST CERTIFICATE AS PER EN 10204 TYPE:3.1

CUSTOMER : ICS ACSEAL GAR SRI- MOLDOVA	P.O./P.I. NO	PO No.:01-05/08/2019MD/05-08-19
	INVOICE NO./DATE	EXP/19-20/393/31-08-19
	QTY.(Kgs.)	710.00

Brand/Grade: SUPER OPTIMAL 308L

Report No: SUP 2019/4699

Size (mm): 2.50X350

Date of issue: 31-08-19

Standard-No./
Classifications: AWS A5.4 :E 308L-16

Batch No/Heat No: M 53145

Date of Mfg: 28-08-19

All Weld Metal Chemical Analysis (%)

Element	C	Si	Mn	S	P	Cr	Ni	Mo	Cu	Nb	V	N
Spec.	0.04 Max.	1.00 Max.	0.50- 2.5	0.03 Max.	0.04 Max.	18.0- 21.0	9.0- 11.0	0.75 Max.	0.75 Max.	-	-	-
Result	0.024	0.90	0.61	0.011	0.028	19.16	9.64	0.10	0.15	-	-	0.075

Mechanical Properties of All Weld Metal

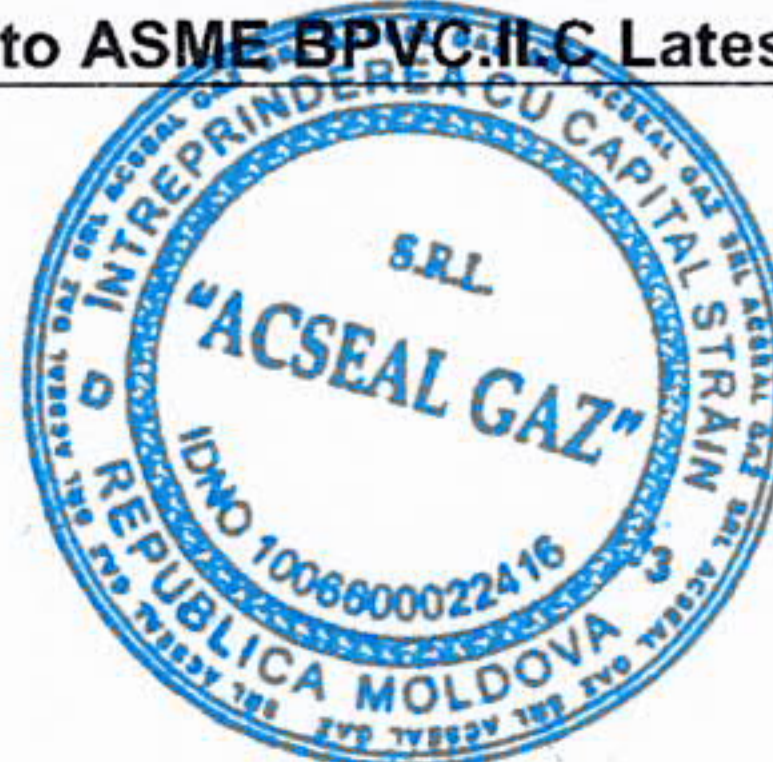
	Yield Strength (N/mm ²)	Tensile Strength (N/mm ²)	Elongation (%)	Charpy Impact Avg. value(Joules) Temp. At --- (°C)	Hardness (As welded)	Ferrite(FN) as per WRC-1992
Spec:	-	520 Min.	30 Min.	-	-	-
Result	-	631	41.88	-	-	6

Diffusible Hydrogen:- (ml/100gm of weld metal)	--	Coating Moisture(%):-	--
Radiography:-	Satisfactory	Fillet weld Test:-	Satisfactory
Bend Test:-	--	PWHT:-	--

Intergranular Corrosion Test as per ASTM A 262:2008 Practice E :Acceptable

TEST CUNDUCTED AS PER : AWS-SFA:5.4 E 308L-16

We certify that the statement in this test report are correct and that the test welds were prepared welded and tested in Accordance with the requirement conforming to ASME BPVC:II.C Latest Edition 2017,in all respects.



Manager Quality Assurance

Corporate Office : Plot No. 552, Sector – 37, Pace City – II, Gurgaon, Haryana-122001,
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Superon Schweisstechnik (I) Ltd

191-D, Sector- IV, Phase- II, IMT Manesar Gurgaon,
Haryana- 122050



An ISO 9001 , ISO 14001 &
BS OHSAS 18001 Certified Company

TEST CERTIFICATE AS PER EN 10204 TYPE:3.1

CUSTOMER : ICS ACSEAL GAR SRI- MOLDOVA

P.O./P.I. NO	PO No.:01-05/08/2019MD/05-08-19
INVOICE NO./DATE	EXP/19-20/393/31-08-19
QTY.(Kgs.)	940.00

Brand/Grade: SUPER OPTIMAL 308L

Report No: SUP 2019/4698

Size (mm): 3.25X350

Date of issue: 31-08-19

Standard-No./
Classifications: AWS A5.4 :E 308L-16

Batch No/Heat No: M 53165

Date of Mfg: 29-08-19

All Weld Metal Chemical Analysis (%)

Element	C	Si	Mn	S	P	Cr	Ni	Mo	Cu	Nb	V	N
Spec.	0.04 Max.	1.00 Max.	0.50- 2.5	0.03 Max.	0.04 Max.	18.0- 21.0	9.0- 11.0	0.75 Max.	0.75 Max.	-	-	-
Result	0.025	0.92	0.75	0.020	0.020	19.20	9.70	0.10	0.19	-	-	0.071

Mechanical Properties of All Weld Metal

	Yield Strength (N/mm ²)	Tensile Strength (N/mm ²)	Elongation (%)	Charpy Impact Avg. value(Joules) Temp. At --- (°C)	Hardness (As welded)	Ferrite(FN) as per WRC-1992
Spec:	-	520 Min.	30 Min.	-	-	-
Result	-	628	41.82	-	-	6

Diffusible Hydrogen:- (ml/100gm of weld metal)	--	Coating Moisture(%):-	--
Radiography:-	Satisfactory	Fillet weld Test:-	Satisfactory
Bend Test:-	--	PWHT:-	--

Intergranular Corrosion Test as per ASTM A 262:2008 Practice E :Acceptable

TEST CONDUCTED AS PER : AWS-SFA:5.4 E 308L-16

We certify that the statement in this test report are correct and that the test welds were prepared welded and tested in accordance with the requirement conforming to ASME BPVC.II.C Latest Edition 2017, in all respects.



Manager Quality Assurance

Corporate Office : Plot No. 552, Sector – 37, Pace City – II, Gurgaon, Haryana-122001,
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Superon Schweisstechnik (I) Ltd

191-D, Sector-IV, Phase-II, IMT Manesar Gurgaon,
Haryana- 122050



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TEST CERTIFICATE AS PER EN 10204 TYPE:3.1

CUSTOMER : ICS ACSEAL GAR SRI- MOLDOVA

P.O./P.I. NO	PO No.:01-05/08/2019MD/05-08-19
INVOICE NO./DATE	EXP/19-20/393/31-08-19
QTY.(Kgs.)	300.00

Brand/Grade: SUPER OPTIMAL 308L

Report No: SUP 2019/4700

Size (mm): 4.00X350

Date of issue: 31-08-19

Standard-No./
Classifications: AWS A5.4 :E 308L-16

Batch No/Heat No : M 52984

Date of Mfg: 22-08-19

All Weld Metal Chemical Analysis (%)

Element	C	Si	Mn	S	P	Cr	Ni	Mo	Cu	Nb	V	N
Spec.	0.04 Max.	1.00 Max.	0.50- 2.5	0.03 Max.	0.04 Max.	18.0- 21.0	9.0- 11.0	0.75 Max.	0.75 Max.	-	-	-
Result	0.027	0.92	0.77	0.014	0.025	19.08	9.58	0.11	0.21	-	-	0.073

Mechanical Properties of All Weld Metal

	Yield Strength (N/mm ²)	Tensile Strength (N/mm ²)	Elongation (%)	Charpy Impact Avg. value(Joules) Temp. At --- (°C)	Hardness (As welded)	Ferrite(FN) as per WRC-1992
Spec:	-	520 Min.	30 Min.	-	-	-
Result	-	629	41.78	-	-	6

Diffusible Hydrogen:- (ml/100gm of weld metal)	--	Coating Moisture(%):-	--
Radiography:-	Satisfactory	Fillet weld Test:-	Satisfactory
Bend Test:-	--	PWHT:-	--

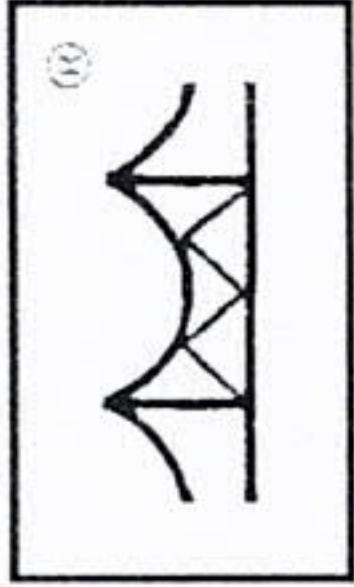
Intergranular Corrosion Test as per ASTM A 262:2008 Practice E :Acceptable

TEST CUNDUCTED AS PER : AWS-SFA:5.4 E 308L-16

We certify that the statement in this test report are correct and that the test welds were prepared welded and tested in Accordance with the requirement conforming to ASME BPVC.II.C Latest Edition 2017, in all respects.



Manager Quality Assurance



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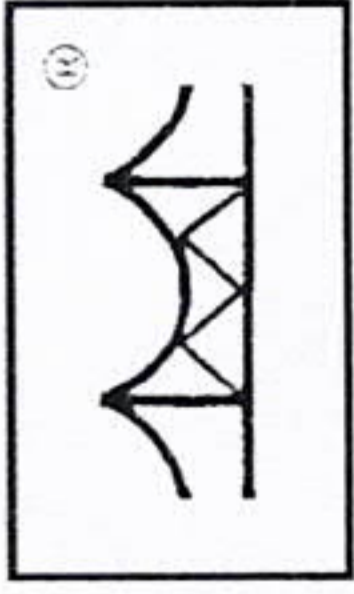
MILL CERTIFICATE 产品质量证明书

NO. 890000326790

GB/T 19001-2016/ISO 9001:2015

Commodity 品名 碳钢焊条	Trade Model 牌号 J38.12 (J421)	GB Model 国标型号 E4313	AWS Model 美标型号 E6013	ISO Model ISO型号 ISO 2560-A-E 35 0 R 12	Size 规格 3.2	Batch No. 批号 23031615
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			
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	0.083	Tensile Strength 抗拉强度R _m (N/mm ²)	430—560	500	合格 I级
S	≤0.035	0.014	Yield Strength 屈服强度ReL (MPa)	≥330	400	合格 II级
Mn	≤1.20	0.30	Percentage Elongation after Fracture 伸长率A (%)	≥22	28.5	
Si	≤1.00	0.18	V-notch Impact Test V型缺口冲击试验	Impact Temp. 试验温度(°C)	0	
P	≤0.040	0.030				
Cr	≤0.20	0.033				
Ni	≤0.30	0.010				
Mo	≤0.30	0.003				
V	≤0.08	0.007				
Approved by 产品认证 LR, BV, ABS, DNV, NK, 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			制表:任玉双 审核:张秋彦 制表日期: 2023年05月05日 QUALITY ASSURANCE DEPARTMENT 质量保障部 邮编 (Post Code): 300800 E-Mail: export@tjgoldenbridge.com			

OID: 80989519



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MILL CERTIFICATE 产品质量证明书

NO. 890000361264

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	24051777
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 (%)						
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	Test Result 实测值
C	≤0.20	0.064	Tensile Strength 抗拉强度R _m (N/mm ²)	430—560	506	合格
S	≤0.035	0.024	Yield Strength 屈服强度ReL (MPa)	≥330	405	I级
Mn	≤1.20	0.40	Percentage Elongation after Fracture 伸长率A (%)	≥22	29.0	
Si	≤1.00	0.17	V-notch Impact Test V型缺口冲击试验	0	0	
P	≤0.040	0.021	Absorbed Energy 吸收能量KV ₂ (J)	≥47	78、74、73	
Cr	≤0.20	0.040				
Ni	≤0.30	0.008				
Mo	≤0.30	0.005				
V	≤0.08	0.008				
Others 其他						
Mechanical Properties of Deposited Metal 熔敷金属力学性能			Fillet 角焊缝 Radiographic Inspection 焊缝射线探伤			
Requirement 标准要求			合格 II级			
Approved by 产品认证						
LR、BV、ABS、DNV、NK、BKI						
Remarks 备注						
<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 PRODUCTS 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 制表日期: 2024年07月01日</p> <p>审核: 张秋彦 审核日期: 2024年07月01日</p> <p>QUALITY ASSURANCE DEPARTMENT 质量保障部</p>						

0UD: 81099745

TIANJIN GOLDEN BRIDGE

WELDING MATERIALS GROUP INTERNATIONAL TRADING CO., LTD.

www.tjgoldenbridge.com



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Inspection Certificate Type 3.1 DIN EN10204

Date:01/07/2024

Quality Management System

ISO9001: 2015

Inspection Certificate 3.1

According to ISO 14341-A-G42 4

M21 3Si1

NO. 890000360266

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.	24053468
Quantity	10,800.00kg

Chemical Composition in % of Welding Wires

C	S	Mn	Si	P	Cr	Ni	Mo	V	Cu	Al	Ti+Zr
0.076	0.011	1.46	0.85	0.012	0.027	0.009	0.005	0.001	0.12	0.008	0.003

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
555	446	26.5	-40	84、73、79	M21

Radiographic Inspection: Rating I

Approved by 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 EN10204OUD: 81099744	this certificate was issued by DP-equipment and does not require signature Datum/date: 01.07.2024	

Post Code 300300

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