

CERTIFICATE

of Conformity of the Factory Production Control

1922 - CPR - 1848

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

Welding consumables - General product standard for filler metals and fluxes for fusion welding of metallic materials.

(For list of products see Annex I to 1922-CPR-1848 that is an inseparable part of this certificate)

placed on the market under the name or trade mark of
LLC "PATON INTERNATIONAL"
66, Novopirogovskaya Str., Kyiv, 03045, Ukraine

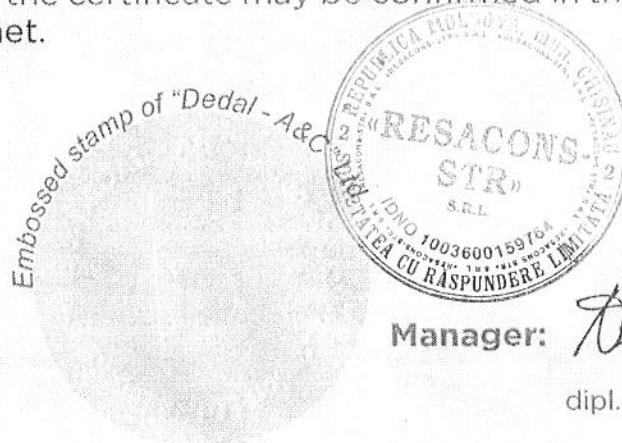
and produced in the manufacturing plant
LLC "PATON INTERNATIONAL"
2, Oleny Telihy Str., Kyiv, 04112, Ukraine

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

EN 13479:2017

under system 2+ are applied and that the factory production control is assessed to be in conformity with the applicable requirements.

This certificate was first issued on 09.09.2022 and will remain valid until 09.09.2024 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body. The certificate is supported through annual surveillance audit and is reissued after each surveillance audit. The validity of the certificate may be confirmed in the CE register at the web address www.dedal-bg.net.



Manager:

Anna Vasileva

Issued:
Burgas, 05 September 2023

Ref. No. 02-00

dipl. eng. Anna Vasileva

ANNEX I TO CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL 1922-CPR-1848/ 05.09.2023 (page 1/1)

List of products:

Name of product type	Classification of ISO 2560:2009
"PATON" E6013 ELITE ANO-21	E 38 0 RC 11
"PATON" E6013 ANO-36	E 42 0 RC 11
"PATON" E6013 ELITE ANO-36	E 42 0 RC 11
"PATON" E6013 ANO-4	E 38 0 R 12
"PATON" E6013 MP-3	E 38 0 R 12
"PATON" E7015 UONI 13/55	E 42 4 B 22 H 10
"PATON" E7018 UONI ELITE	E 42 4 B 42 H 10



Embossed stamp of "Dedal - A&C" Ltd.



Manager:

Anna Vasileva

Issued:
Burgas, 05 September 2023

dipl. eng. Anna Vasileva

Ref. No. 02-00

DECLARATION OF PERFORMANCE

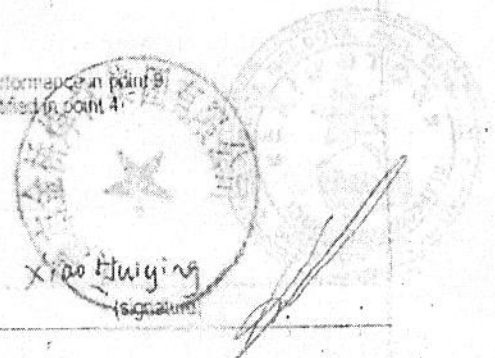
No. JQ.TH550--NQ--II

1. Unique identification code of the product type:
JQ.TH550--NQ--II; EN ISO 14341-B-G 55A 4 M21 SZ
2. Type, batch or serial no. or any element allowing identification of the construction product as required pursuant to Article 11(4):
Solid wire for gas shielded metal arc welding
3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:
Use in metallic structures or in composite metal and concrete structures
4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required acc. to Article 11(5):
Tianjin Golden Bridge Welding Materials Group Co., Ltd.
1 LiuJing Road, Development Area Dongli District, Tianjin City, 300300, P. R. China
5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks acc. to Article 12(2):
n.r.
6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:
System 2+
7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:
The Notified Body- TÜV SÜD Industrie Service GmbH, Westendstr. 199, D - 80686 Munich, no. 0036 - has performed the initial inspection of the manufacturing plant and of factory production control as well as the continuous surveillance, assessment and evaluation of factory production control under system 2+ and issued a certificate of conformity of the factory production control with no. 0036 - CPR - S082
8. In case of the declaration of performance concerning a construction product for which an European Technical Assessment has been issued:
n.r.
9. Declared performance:

Essential characteristics (EN 13479: 2004, Anhang ZA)	Performance	Harmonized technical specification
Tolerances on dimensions	passed	EN 13479 EN ISO 544
Elongation	≥ 17%	EN 13479 EN ISO 14341
Tensile strength	≥ 550-740MPa	EN 13479 EN ISO 14341
Yield strength	≥ 460MPa	EN 13479 EN ISO 14341
Impact strength	≥ 47J(-40 °C)	EN 13479 EN ISO 14341
Chemical composition	passed	EN 13479 EN ISO 14341
Durability	passed	EN 13479
Dangerous substances	passed	EN 13479
Emission of radioactivity	not relevant	EN 13479

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.
Signed for and on behalf of the manufacturer by:

Tianjin 2017.11.1
(place and date of issue)



Xiao Huiying
(signature)

BAODING ZHIPENG IMPORT&EXPORT CO., LTD

ADD: ROOM 701 B BUILDING LONGXING BUSINESS CENTER, NO.77 LONGXING MIDDLE ROAD, BAODING, HEBEI, CHINA

QUALITY CERTIFICATION OF WELDING ELECTRODE

CERTIFICATE NO: Y-6

AWS E6013 WELDING ELECTRODE: 3.2mm x 350mm

PRODUCTS NAME	TYPE	DIAMETER	LOT NO	EXECUTIVE STANDARD	MANUFACTUREDATE
WELDING ELECTRODE	AWS E6013	3.2mm x 350mm	18632	GB/T5117-1995	Nov. 2018

CHEMICAL COMPOSITION (%)

ELEMNTS	C	Mn	Si	S	P
REQUIREMENT	≤0.12	0.30-0.60	≤0.35	≤0.035	≤0.040
ACTUALRESULT	0.010	0.40	0.20	0.026	0.025

MECHANICAL PROPERTIES OF DEPOSITED METAL

ITEM	TENSILE STRENGTH	YIELD POINT	ELONGATION	IMPACT VALE	X-RAY
STANDARD	≥420	≥330	≥17	-	II
ACTUAL RESULT	450	350	19	-	II

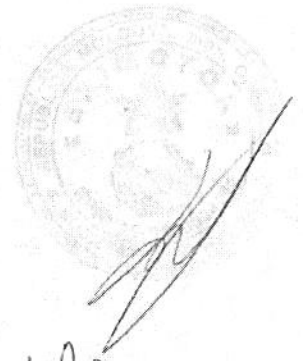
This is to certify the E6013 Welding Electrode conforms to the above standard.



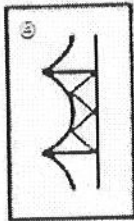
任维维



Stratulat



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. 890000306023

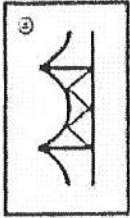
GB/T 19001-2016/ISO 9001:2015

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	2.5	22051641
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	Requirement 标准要求
C	≤0.20	0.073	Tensile Strength 抗拉强度 $R_m(N/mm^2)$	430—560	495	合格
S	≤0.035	0.015	Yield Strength 屈服强度 $R_{eL}(MPa)$	≥330	395	II级
Mn	≤1.20	0.30	Percentage Elongation after Fracture 伸长率A (%)	≥22	28.0	合格
Si	≤1.00	0.19	Impact Temp. 试验温度(°C)	0	0	合格
P	≤0.040	0.022		Absorbed Energy 吸收能量 $KV_2(J)$	≥47	
Cr	≤0.20	0.038	V型缺口冲击试验			
Ni	≤0.30	0.008				
Mo	≤0.30	0.005				
V	≤0.08	0.008				
Others 其他						
Fillet. 角焊缝 Radiographic Inspection 焊缝射线探伤						
<p>Approved by 产品认证</p> <p>CCS, LR, BV, ABS, DNVGL, NK, BKI</p> <p>Remarks 备注</p> <p>Complied with CCS 《Rules for Materials and Welding》 《材料与焊接规范》 满足CCS</p> <p>制表: 张秀兰 审核: 张秋彦 制表日期: 2022年06月07日</p> <p>OID: 80912841</p>						
<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 AND OUR PRODUCTS IN ACCORDANCE WITH THE CERTIFICATION CONDITION. WE ARE RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS.</p> <p>兹证明本报告所载实测结果皆正确并符合通用规范要求。产品的生产过程与可条件符合我们承诺对该产品质量负责。</p> <p>天津金桥焊材有限公司 质量保证部 张秋彦 张秀兰</p>						

Tel: (86)-(022)-58296666
WebSite: WWW.TJGoldenBridge.com
E-Mail: Market@TJGoldenBridge.com
Fax: (86)-(022)-23992100

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
Post Code: 300300

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



金桥焊材

MILL CERTIFICATE

产品质量证明书

NO. 890000306033

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	22051651
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	0.089	Tensile Strength 抗拉强度 $R_m(N/mm^2)$	430—560	505	合格
S	≤0.035	0.013	Yield Strength 屈服强度 $ReL(MPa)$	≥330	405	II级
Mn	≤1.20	0.40	Percentage Elongation after Fracture 伸长率A (%)	≥22	29.0	I级
Si	≤1.00	0.18	V-notch Impact Test V型缺口冲击试验	0	0	
P	≤0.040	0.023	Absorbed Energy 吸收能量 $KV_2(J)$	≥47	75、76、77	
Cr	≤0.20	0.041				
Ni	≤0.30	0.008				
Mo	≤0.30	0.005				
V	≤0.08	0.008				
Approved by 产品认证 CCS、LR、BV、ABS、DNVGL、NK、BKI						
Remarks 备注 Complied with CCS 《Rules for Materials and Welding》 《材料与焊接规范》 满足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 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正确并符合适用规范要求。产品的生产制造过程与认证保持一致。我们对该产品质量负责。

制表: 张秀兰 审核: 张秋彦
制表日期: 2022年06月07日

QUALITY ASSURANCE DEPARTMENT
质量保障部

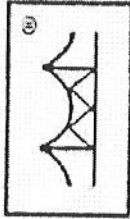
Address: No.1, LiuJing Road, DongLi Development Area, TianJin, CHINA
地址: 中国天津市东丽开发区六经路1号

Tel: (86)-(022)-58296666
Tel: (86)-(022)-24992135

WebSite: WWW.TJGoldenBridge.com
E-Mail: Market@TJGoldenBridge.com

Post Code: 300300

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

金桥焊材

NO. 890000299739

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	22021610
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	Requirement 标准要求
C	≤0.20	0.064	Tensile Strength 抗拉强度 R_m (N/mm ²)	430—560	500	合格
S	≤0.035	0.014	Yield Strength 屈服强度 R_eL (MPa)	≥330	400	II级
Mn	≤1.20	0.30	Percentage Elongation after Fracture 伸长率A (%)	≥22	28.5	合格
Si	≤1.00	0.21	V-notch Impact Test 试验温度(°C)	0	0	I级
P	≤0.040	0.023	Absorbed Energy 吸收能量KV ₂ (J)	≥47	69、70、71	
Cr	≤0.20	0.028				
Ni	≤0.30	0.006				
Mo	≤0.30	0.005				
V	≤0.08	0.007				
Others 其他						
Fillet 角焊缝 Radiographic Inspection 焊缝射线探伤						
Approved by 产品认证						
CCS、LR、BV、ABS、DNVGL、NK、BKI						
Remarks 备注						
Complied with CCS 《Rules for Materials and Welding》《材料与焊接规范》 满足CCS OID: 80912841						
<p>WE HEREBY CERTIFY THAT THIS REPORT IS CORRECT AND THAT ALL TESTS DESCRIBED HEREIN ARE IN ACCORDANCE WITH THE SPECIFICATION DESCRIBED HEREIN. THE MANUFACTURING PROCESSOR OF YOUR PRODUCT IS RESPONSIBLE FOR THE QUALITY OF OUR PRODUCTS.</p> <p>兹证明本报告所载实测结果皆正确并符合适用规范要求。产品的生产过程与检验保持受控。我们承诺对该产品质量负责。</p> <p>制表: 张秀兰 审核: 张秋彦 制表日期: 2022年06月07日</p>						

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

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Post Code: 300300



BAODING ZHIPENG IMPORT & EXPORT CO., LTD

ADD: ROOM 701 B BUILDING LONGXING BUSINESS CENTER, NO. 77 LONGXING MIDDLE ROAD, BAODING, HEBEI, CHINA

QUALITY CERTIFICATION OF WELDING ELECTRODE

CERTIFICATE NO. Y-6

AWS E6013 WELDING ELECTRODE: 3.2mm x 350mm

PRODUCTS NAME	TYPE	DIAMETER	LOT NO	EXECUTIVE STANDARD	MANUFACTURED AT
WELDING ELECTRODE	AWS E6013	3.2mm x 350mm	18632	GB/T5117-1995	Nov. 2018

CHEMICAL COMPOSITION (%)

ELEMENTS	C	Mn	Si	S	P
REQUIREMENT	≤0.12	0.30-0.60	≤0.35	≤0.035	≤0.040
ACTUAL RESULT	0.010	0.40	0.20	0.026	0.025

MECHANICAL PROPERTIES OF DEPOSITED METAL

ITEM	TENSILE STRENGTH	YIELD POINT	ELONGATION	IMPACT VALE	X-RAY
STANDARD	≥420	≥330	≥17	-	II
ACTUAL RESULT	450	350	19	-	II

This is to certify the E6013 Welding Electrode conforms to the above standard.



任维维





Сертифікат якості

E-11113-31-05-2015

Виробник: ТОВ «ВУТМАРК-УКРАЇНА»
ОТРИМУВАЧ: ООО «УКРНІХРОМ»

EN 10204
ХІМІЧНИЙ СКЛАД 2.2 X
МЕХАНІЧНІ ВЛАСТИВОСТІ 3.1 X

ГРУПА ПРОДУКТІВ	Покритий електрод з рутиловим покриттям
НАЙМЕНУВАННЯ ТОВАРУ	Електроди зварювальні УОНИ
НОРМАТИВНА ДОКУМЕНТАЦІЯ	EN ISO 2560-A
УМОВНЕ ПОЗНАЧЕННЯ	E 42 0 R 11
СТАН ПОСТАЧАННЯ	Герметична упаковка
РОЗМІР	4.00x350 mm
КІЛЬКІСТЬ	800 кг
НОМЕР ПЛАВКИ	102224

AWS A-5.1
E6013

ХІМІЧНИЙ АНАЛІЗ НАПЛАВЛЕНОГО МЕТАЛУ (%)					
Номер плавки	C	Si	Mn	P	S
102224	0,07	0,46	0,51	0,011	0,010

МЕХАНІЧНІ ВЛАСТИВОСТІ НАПЛАВЛЕНОГО МЕТАЛУ								
Випробування на тимчасовий опір – EN ISO 6892-1					Випробування на ударну в'язкість – EN ISO 148-1:2010			
Підготовка зразка – EN ISO 5178:11					Підготовка зразка – EN ISO 5178:11			
Тем-ра випроб.	Rp Межа текучості	Rm Тимчасовий опір	A Подовження	Тем-ра випроб.	KV Ударна в'язкість	Твердість	Радиографічне випробування	Термічна обробка
°C	МПа	МПа	%Lo=5do	°C	Дж	-	-	-
102224	+20	510	540	26	+20	55	-	-

Продукція була поставлена згідно EN ISO 9001.
Спектральний аналіз: беззаперечно.
Контроль якості: беззаперечно.
Дана електронна версія сертифіката є дійсним без підпису.
Цим ми засвідчуємо, що матеріал відповідає вище наведеної специфікації.



BAODING XULU IMPORT&EXPORT TRADING CO.,LTD

ADD: RM 308 WANHE APARTMENT LEKAI NORTH STREET, HANCUN TOWN, JINGXIU DISTRICT, BAODING, HEBEI, CHINA

QUALITY CERTIFICATION OF WELDING ELECTRODE

CERTIFICATE NO: Y-6

AWS E6013 WELDING ELECTRODE: 4.0mm x 400mm

PRODUCTS NAME	TYPE	DIAMETER	LOT NO	EXECUTIVE STANDARD	MANUFACTUREDATE
WELDING ELECTRODE	AWS E6013	4.0mm x 400mm	19603	GB/T5117-1995	March, 2019

CHEMICAL COMPOSITION (%)

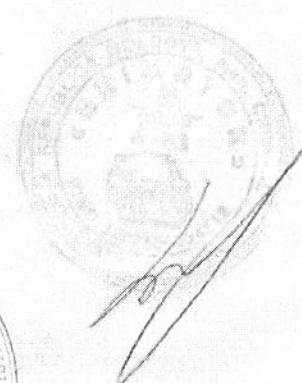
ELEMNTS	C	Mn	Si	S	P
REQUIREMENT	≤0.12	0.30-0.60	≤0.35	≤0.035	≤0.040
ACTUALRESULT	0.015	0.50	0.30	0.030	0.030

MECHANICAL PROPERTIES OF DEPOSITED METAL

ITEM	TENSILE STRENGTH	YIELD POINT	ELONGATION	IMPACT VALE	X-RAY
STANDARD	≥420	≥330	≥17	-	II
ACTUAL RESULT	500	400	20	-	II

This is to certify the E6013 Welding Electrode conforms to the above standard.

保定市旭禄进出口贸易有限公司
BAODING XULU IMPORT & EXPORT TRADING CO.,LTD
旭 禄 进



ELECTRODE	AWS E6013	4.0mm x 400mm	19603	GB/T5117-1995	March, 2019
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CHEMICAL COMPOSITION (%)

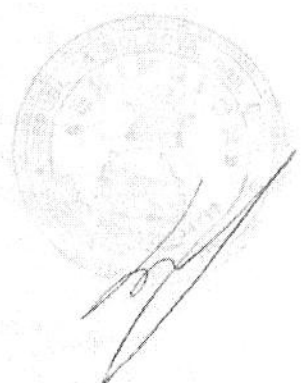
ELEMNTS	C	Mn	Si	S	P
REQUIREMENT	≤0.12	0.30-0.60	≤0.35	≤0.035	≤0.040
ACTUALRESULT	0.015	0.50	0.30	0.030	0.030

MECHANICAL PROPERTIES OF DEPOSITED METAL

ITEM	TENSILE STRENGTH	YIELD POINT	ELONGATION	IMPACT VALE	X-RAY
STANDARD	≥420	≥330	≥17	-	II
ACTUAL RESULT	500	400	20	-	II

This is to certify the E6013 Welding Electrode conforms to the above standard.

保定市旭禄进出口贸易有限公司
 BAODING XULU IMPORT & EXPORT TRADING CO.,LTD
 谢 禄 续



BAODING XULU IMPORT&EXPORT TRADING CO.,LTD

ADD: RM 308 WANHE APARTMENT LEKAI NORTH STREET, HANCUN TOWN, JINGXIU DISTRICT, BAODING, HEBEI, CHINA

QUALITY CERTIFICATE OF WELDING WIRE