



WELDING CONSUMABLE CERTIFICATE

Certificate No.: 757982-3598886-03 _____

Report No.: IS3598886 _____

Port of: ISTANBUL _____

Date: 13 JUNE 2019 _____

THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF GEDIK KAYNAK SAN. VE TIC. A.S , ATTEND THEIR PLANT AT PENDIK - ISTANBUL / TURKEY , ON THE 24 DAY OF DECEMBER , 2018 AND ON SUBSEQUENT DATES, IN ORDER TO CARRY OUT A PLANT SURVEY OF FACILITIES AND ASSOCIATED QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES AND TO WITNESS AND REPORT ON THE ANNUAL APPROVAL TESTING OF WELDING CONSUMABLES; AND,

THAT THE FACILITY IS CONSIDERED CAPABLE OF PROVIDING AN ACCEPTABLE UNIFORM PRODUCT, AND THAT EACH WELDING CONSUMABLE LISTED BELOW WAS FOUND IN COMPLIANCE WITH THE SPECIFICATION INDICATED AND IS ELIGIBLE TO BE PLACED ON THIS BUREAU'S APPROVED WELDING CONSUMABLES LIST IN THE GAS METAL ARC WELDING INCLUDING MIG/TIG WELDING SECTION:

<u>TRADE NAME</u>	<u>SPECIFICATION</u>	<u>GRADE OR CLASS</u>	<u>SHIELDING GAS</u>	<u>POSITION</u>	<u>CURRENT/ POLARITY</u>	<u>SIZE</u>
GeKa ELCOR M 70	ABS	3YM,3YM H5	M21 (%82Ar+ %18CO2)	F,H,V	DCEP	1.2-1.60 mm
GeKa ELCOR R 71	AWS A5.20	E71T-1C-J	CO2	ALL	DCEP	1.2-1.60 mm
GeKa ELCOR R 71	ABS	4YSA, 4YSA H10				
GeKa SG2	ABS	3YSA *	M24(78%Ar + 20%CO2+2%O2)	F,H,V, V-DOWN	DCEP	0.6-1.60 mm
GeKa SG2(TIG)	ABS	4SA / 4YSA	Ar (II)	ALL	DCEP	1.6-3.20 mm
GeKa ELCOR R81Ni	ABS	4YQ460 SA H5	CO2	ALL	DCEP	1.20 mm
GeKa ELCOR R 91	ABS	4YQ550 SA H5	CO2	ALL	DCEP	1.20 mm
GeKa ELCOR R 110	ABS	E 111 T1-G C*	CO2	ALL	DCEP	1.20 mm

* Impact tests were carried out at - 40 C.

Note: This Certificate evidences compliance with one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This Certificate is a representation only that the structure, item of material, equipment, machinery or any other item covered by this Certificate has met one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping as of the date of issue. Parties are advised to review the Rules for the scope and conditions of classification and to review the survey records for a fuller description of any restrictions or limitation on the vessel's service or surveys. The validity, applicability and interpretation of this Certificate is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Certificate or in any notation made in contemplation of this Certificate shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.

The image shows a handwritten signature in blue ink, which appears to be "Evren Erdir". To the right of the signature is a red circular stamp. The stamp features the American Bureau of Shipping (ABS) logo, which includes a stylized eagle with wings spread, and the word "ABS" at the top and "ISTANBUL" at the bottom.

EVREN ERDIR SURVEYOR

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Certificate number : WM 12259/25/1.0

File number : 12259 N 2012

TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Marine & Offshore Classification Rules

This certificate is issued to

Gedik Kaynak Sanayi Ve Ticaret A/S
Istanbul - TURKEY

for the product

Solid Wire / Gas Combination for TIG Welding

Designation	: GEKA SG2 / Ar
Grade	: 4YM
Description	: Gas Shield Argon 100%
Diameter	: 1.6-2.0-2.4-3.2 mm
Welding current	: DC (-)
Welding position	: All positions for butt welding except vertical downwards (PA, PF, PC, PE)
Remark	: NIL

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of Bureau Veritas Marine & Offshore Rules on Materials and Welding for the Classification of Marine Units.

This certificate will expire on: 16 Jun 2021

For Bureau Veritas Marine & Offshore,

Local office: BV ISTANBUL

Issued on 16 Jun 2020

Surveyor: G. Yilmaz



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.



Zulassungszertifikat für Schweißzusätze und Schweißhilfsstoffe

Hersteller: Gedik Kaynak Sanayi Ve Ticaret A. S.
Ankara Cad. No. 306
34906 PENDIK-ISTANBUL
TÜRKEI

Schweißzusatz:	SG-Schweißstab	DB-Zulassungs-Nr.:	42.110.05
Markenbezeichnung:	GeKa SG 2 TIG	Geltungsdauer:	31.12.2020
Normbezeichnung:	DIN EN ISO 636-A-W 42 4 I1 3Si1		

Geltungsbereich aufgrund der nach VA 918 490 durchgeführten Eignungsprüfung:

Werkstoffgruppe nach CEN ISO/TR 15608 ¹⁾: Mit dem Schutzgas nach DIN EN ISO 14175 - I1:
2.1 ($R_{eH} \leq 420$ MPa)

Schweißprozess nach DIN EN ISO 4063: 141

Schweißpositionen nach DIN EN ISO 6947: PA, PB, PC, PE, PF

Stromart und Polung: = (-)

Durchmesserbereich: 1,0 - 4,0 mm

Bemerkungen/Schweißbedingungen: ./.

Kirchmöser, den 01.03.2018


.....
(Dip.-Ing. (FH) Kupiec - Leiter Zertifizierungsstelle)

¹⁾ Erläuterungen zu den mitgeltenden Werkstoffen sind der VA 918 490, Anhang 3 zu entnehmen.

TYPE APPROVAL CERTIFICATE**This is to certify:****That the Wire/Gas combination**

with trade name

GeKa SG2/I1

Manufacturer

**Gedik Kaynak Sanayi ve Ticaret A.S.
Istanbul, Turkey**

is found to comply with

DNV GL rules for classification – Ships

with this approval

Grade	IV YM
Current	DC -
Approved diameter	1,6 - 3,2mm
Positions	All including vertical down
Remarks	For Tungsten inert gas welding (TIG)

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.This Certificate is valid until **2021-04-12**.Issued at **Hamburg** on **2016-04-13**DNV GL local station: **Istanbul**Approval Engineer: **Hans-Joachim Vogt**for **DNV GL**

Thorsten Lohmann
Head of Section

Any significant change in design or construction may render this Certificate invalid.



TÜRK LOYDU

CERTIFICATE OF APPROVAL FOR WELDING CONSUMABLES

Certificate No: **WA.DEB.17-2443-1**

This Certificate consists of 2 pages.

This is to certify that the

Flux-Cored Wire for Semi-Automatic or Automatic Welding with Shielding Gas

With Brand

GeKa SG2 / I1 - TIG Welding Rod

Manufactured by

GEDİK KAYNAK San. ve Tic. A.Ş.

Is found to comply with

according to Türk Loydu Rules for Classification of Steel Ships - Welding.

Place and date : İSTANBUL / 18.10.2019

Emrah SÖĞÜTÇÜ
New Building Division Manager

Hasan HABİBOĞLU
Surveyor



This certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The manufacturer should notify TÜRK LOYDU of any modifications or changes to the equipment in order to obtain valid certificate. This certificate shows that tested specimens, representative of the product complies of the TÜRK LOYDU rules, and relevant international instruments that apply to it.



TÜRK LOYDU

ANNUAL TEST CERTIFICATE FOR WELDING CONSUMABLES KAYNAK DOLGU MALZEMELERİ YILLIK TEST SERTİFİKASI

This is to certify that the below mentioned products have been inspected and tested and found satisfactory according to Türk Loydu Rules for Classification of Steel Ships - Welding.

Aşağıda belirtilen ürünlerin testlerinin yapıldığı ve Türk Loydu Tekne Yapımında Kaynak Kuralları uyarınca uygun bulunduğu onaylanır.

Manufacturer: GEDİK KAYNAK SANAYİ VE TİCARET A.Ş.
Üretici

Product Ürün	Welding Flux/ Shielding Gas Kaynak Tozu/ Koruyucu Gaz	Grade/ Suffix Derecesi/ Ek
Covered Electrodes Örtülü Elektrodlar		
Flux Cored Wire - Gas Combinations Gazaltı Özlü Kaynak Teli		
Wire - Gas Combinations Tel - Gaz Kombinasyonu GeKa SG2	II	4 YM
Wire - Flux Combinations Tel - Toz Kombinasyonu		

Date of Test: 04.10.2019
Test Tarihi

Valid Until:
Geçerlilik Süresi

Ekim / October 2020



ISTANBUL
(Place/Yer)

18.10.2019
(Date/Tarih)

Hasan HABİBOĞLU
Surveyor to Türk Loydu