



Type Approval Certificate

[Welding Consumables]

Initial Approval 15th November, 2004

Manufacturer Tianjin Golden Bridge Welding Materials Group Co., Ltd.
No. 1, Liuqing Road, Development Area of Dongli District, Tianjin City, P.R.China

Product Description Covered electrodes for manual welding
- Brand : J48.57(J507)

Wire-gas combinations for semi-automatic arc welding
- Brand : JQ.MG50-6

Flux cored wires with gas for semi-automatic & automatic arc welding
- Brand : JQ.YJ501-1

Wire-flux combinations for submerged arc automatic welding
- Brand : JQ.H10Mn2/JQ.SJ101

See "Appendix 1 & 2"

Approval Condition

1. The product or packing is to be marked with manufacturer name and type designation on a suitable position.
2. Individual Product Certification is not required.
3. Periodical survey is to be carried out at an interval of one(1) year in the presence of the surveyor

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows.

Pt. 2, Ch. 2, Sec. 6 of the Rules for Classification of Steel Ships.

This Certificate is valid until 14th November, 2024

Issued at Shanghai, China on 30th October, 2019



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "<http://e-cert.krs.co.kr>" by using the tracking No(ME21029975786) and certificate No.(DLN15311-WD002).



KOREAN REGISTER

*General Manager of
Technical Support Team
CHINA KR Co., Ltd.*

Note : 1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.
2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

Product Description and/or Approval Condition

Date of Issue : 30th October, 2019

◎ Product Description :

Brand	Grade	Diameter (mm)	Welding Position	Current (Polarity)	Shielding Gas
J48.57 (J507)	3YH10	2.5 ~ 5.0	*(1)	DC(+)	-
JQ. MG50-6	3YSG(C)H10	0.8 ~ 1.6	*(2)	DC(+)	CO ₂ 100%
JQ. YJ501-1	3YSG(C)H10	1.0 ~ 1.6	*(2)	DC(+)	CO ₂ 100%
	3YMG(C)H10	1.0, 1.2	*(2)		
JQ. H10Mn2/ JQ. SJ101	3YM	2.5 ~ 5.0	Flat	AC/DC(+)	-

* Remark :

- (1) Butt & Fillet: Flat, Horizontal, Vertical-up and Overhead
 (2) Butt & Fillet: Flat, Horizontal, Vertical-up & down and Overhead

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KOREAN REGISTER

Endorsement for Periodical Survey

Date of Issue : 30th October, 2019

Anniversary Date : 14th November

This is to certify that the product is in compliance with the relevant requirements to obtain/ retain the Society's approval in accordance with Pt. 2, Ch. 2, Sec. 6 of the Rules for Classification of Steel Ships. and is valid until 14th November, 2020

■ Periodical Survey

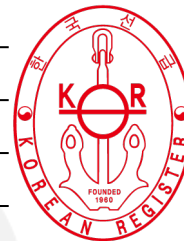
Periodical Survey has been carried out and the product is valid until

14th November, 2021

Branch(Office) : Dalian Branch Office

Date : 25th October, 2020

Surveyor : LIU Dongsheng



■ Periodical Survey

Periodical Survey has been carried out and the product is valid until

14th November, 2022

Branch(Office) : Dalian Branch Office

Date : 30th September, 2021

Surveyor : WEI Jianbo



■ Periodical Survey

Periodical Survey has been carried out and the product is valid until

Branch(Office) :

Date :

Surveyor :

■ Periodical Survey

Periodical Survey has been carried out and the product is valid until

Branch(Office) :

Date :

Surveyor :

Note : The approval will be automatically suspended and the Certificate become invalid if not endorsed annually within 3 months after the anniversary date of this Certificate