



NIPPON KAIJI KYOKAI

Approval No. NKY-3200
Certificate No. TA23356E

Certificate OF TYPE APPROVAL

Article: Welding Consumables for High Tensile Steels for Hull
Brand: GL-52
Applicant: Kim Tin Long An Corporation
Kien Thanh Industrial Zone, Long Cang, Can Duoc, Long An, Vietnam
Manufacturer: Kim Tin Long An Corporation
Kien Thanh Industrial Zone, Long Cang, Can Duoc, Long An, Vietnam
Grade: KMW53H10
Welding Process: Manual Welding
Welding Positions and Max. Diameter of Wire: See Table 1
Current: AC, DCEP or DCEN
Shielding Gas: Not Applicable

Table 1 Welding Positions and Max. Diameter of Electrode

Butt Weld		Fillet Weld	
Flat:	5.0mm	Flat:	5.0mm
Horizontal:	5.0mm	Horizontal Vertical:	5.0mm
Overhead:	5.0mm	Horizontal:	5.0mm
Vertical Upward:	5.0mm	Horizontal Overhead:	5.0mm
Vertical Downward:	Not Applicable	Overhead:	5.0mm
		Vertical Upward:	5.0mm
		Vertical Downward:	Not Applicable

THIS IS TO CERTIFY that the above mentioned welding consumable has been approved by the NIPPON KAIJI KYOKAI in accordance with the requirements of the Society's Rules.


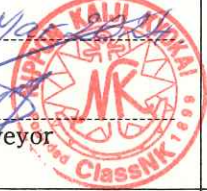
This Certificate will remain in force until 22 January 2024.
Issued at Tokyo on 29 March 2023.


Y. Takao

General Manager
Material and Equipment Department



Note : (1) The validity of this certificate may be renewed by endorsement on the attached sheet upon completion of the annual inspections.
(2) This certificate was rewritten because of change of the applicant's name and the manufacturer's name.

<p>The validity of this certificate has been renewed until <u>22 January 2025</u> .</p> <p>Date: <u>22 Mar 2025</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>
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NIPPON KAIJI KYOKAI

Approval No. NKY-3179
Certificate No. TA23355E

Certificate OF *TYPE APPROVAL*



Article: Welding Consumables for High Tensile Steels for Hull
Brand: GM70S
Applicant: Kim Tin Long An Corporation
Kien Thanh Industrial Zone, Long Cang, Can Duoc, Long An, Vietnam
Manufacturer: Kim Tin Long An Corporation
Kien Thanh Industrial Zone, Long Cang, Can Duoc, Long An, Vietnam
Grade: KSW53G(C)
Welding Process: Semi-Automatic Welding (MAG Welding)
Welding Positions and Max. Diameter of Wire: See Table 1
Current: DCEP
Shielding Gas: CO₂

Table 1 Welding Positions and Max. Diameter of Wire


Butt Weld		Fillet Weld	
Flat:	1.6mm	Flat:	1.6mm
Horizontal:	1.6mm	Horizontal Vertical:	1.6mm
Overhead:	1.6mm	Horizontal:	1.6mm
Vertical Upward:	1.6mm	Horizontal Overhead:	1.6mm
Vertical Downward:	Not Applicable	Overhead:	1.6mm
		Vertical Upward:	1.6mm
		Vertical Downward:	Not Applicable

THIS IS TO CERTIFY that the above mentioned welding consumable has been approved by the NIPPON KAIJI KYOKAI in accordance with the requirements of the Society's Rules.

This Certificate will remain in force until 3 March 2024.
Issued at Tokyo on 29 March 2023.



 Y. Takao
 General Manager
 Material and Equipment Department

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<p>The validity of this certificate has been renewed until <u>03 March 2025</u> .</p> <p>Date: <u>22 Mar 2024</u></p> <p> Surveyor</p>	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>
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NIPPON KAIJI KYOKAI

Approval No. NKY-3178
Certificate No. TA23354E

Certificate OF *TYPE APPROVAL*

Article: Welding Consumables for Mild Steels for Hull
Brand: EM12K / CM185
[Wire / Flux]
Applicant: Kim Tin Long An Corporation
Kien Thanh Industrial Zone, Long Cang, Can Duoc, Long An, Vietnam
Manufacturer: Kim Tin Long An Corporation
Kien Thanh Industrial Zone, Long Cang, Can Duoc, Long An, Vietnam
Grade: KAW52TM
Welding Process: Submerged Arc Welding
Welding Positions and Max. Diameter of Wire: See Table 1
Current: DCEP
Shielding Gas: Not Applicable



Table 1 Welding Positions and Max. Diameter of Wire

Butt Weld		Fillet Weld	
Flat:	4.0mm	Flat:	4.0mm
Horizontal:	Not Applicable	Horizontal Vertical:	Not Applicable
Overhead:	Not Applicable	Horizontal:	Not Applicable
Vertical Upward:	Not Applicable	Horizontal Overhead:	Not Applicable
Vertical Downward:	Not Applicable	Overhead:	Not Applicable
		Vertical Upward:	Not Applicable
		Vertical Downward:	Not Applicable



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 Y. Takao
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NIPPON KAIJI KYOKAI

Approval No. NKY-3177
Certificate No. TA23353E

Certificate OF *TYPE APPROVAL*

Article: Welding Consumables for Mild Steels for Hull
Brand: EL12 / CM185
[Wire / Flux]
Applicant: Kim Tin Long An Corporation
Kien Thanh Industrial Zone, Long Cang, Can Duoc, Long An, Vietnam
Manufacturer: Kim Tin Long An Corporation
Kien Thanh Industrial Zone, Long Cang, Can Duoc, Long An, Vietnam
Grade: KAW2TM
Welding Process: Submerged Arc Welding
Welding Positions and Max. Diameter of Wire: See Table 1
Current: DCEP
Shielding Gas: Not Applicable



Table 1 Welding Positions and Max. Diameter of Wire

Butt Weld		Fillet Weld	
Flat:	4.0mm	Flat:	4.0mm
Horizontal:	Not Applicable	Horizontal Vertical:	Not Applicable
Overhead:	Not Applicable	Horizontal:	Not Applicable
Vertical Upward:	Not Applicable	Horizontal Overhead:	Not Applicable
Vertical Downward:	Not Applicable	Overhead:	Not Applicable
		Vertical Upward:	Not Applicable
		Vertical Downward:	Not Applicable

THIS IS TO CERTIFY that the above mentioned welding consumable has been approved by the NIPPON KAIJI KYOKAI in accordance with the requirements of the Society's Rules.



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Issued at Tokyo on 29 March 2023.



 Y. Takao
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NIPPON KAIJI KYOKAI

Approval No. NKY-3175
Certificate No. TA23351E

Certificate OF TYPE APPROVAL

Article: Welding Consumables for High Tensile Steels for Hull
Brand: EM12K / CM143
[Wire / Flux]
Applicant: Kim Tin Long An Corporation
Kien Thanh Industrial Zone, Long Cang, Can Duoc, Long An, Vietnam
Manufacturer: Kim Tin Long An Corporation
Kien Thanh Industrial Zone, Long Cang, Can Duoc, Long An, Vietnam
Grade: KAW53TM
Welding Process: Submerged Arc Welding
Welding Positions and Max. Diameter of Wire: See Table 1
Current: DCEP
Shielding Gas: Not Applicable


Table 1 Welding Positions and Max. Diameter of Wire

Butt Weld		Fillet Weld	
Flat:	4.0mm	Flat:	4.0mm
Horizontal:	Not Applicable	Horizontal Vertical:	Not Applicable
Overhead:	Not Applicable	Horizontal:	Not Applicable
Vertical Upward:	Not Applicable	Horizontal Overhead:	Not Applicable
Vertical Downward:	Not Applicable	Overhead:	Not Applicable
		Vertical Upward:	Not Applicable
		Vertical Downward:	Not Applicable

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Issued at Tokyo on 29 March 2023.


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 General Manager
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NIPPON KAIJI KYOKAI

Approval No. NKY-3176
Certificate No. TA23352E

Certificate OF TYPE APPROVAL

Article: Welding Consumables for Mild Steels for Hull
Brand: EL12 / CM143
[Wire / Flux]
Applicant: Kim Tin Long An Corporation
Kien Thanh Industrial Zone, Long Cang, Can Duoc, Long An, Vietnam
Manufacturer: Kim Tin Long An Corporation
Kien Thanh Industrial Zone, Long Cang, Can Duoc, Long An, Vietnam
Grade: KAW3TM
Welding Process: Submerged Arc Welding
Welding Positions and Max. Diameter of Wire: See Table 1
Current: DCEP
Shielding Gas: Not Applicable



Table 1 Welding Positions and Max. Diameter of Wire

Butt Weld		Fillet Weld	
Flat:	4.0mm	Flat:	4.0mm
Horizontal:	Not Applicable	Horizontal Vertical:	Not Applicable
Overhead:	Not Applicable	Horizontal:	Not Applicable
Vertical Upward:	Not Applicable	Horizontal Overhead:	Not Applicable
Vertical Downward:	Not Applicable	Overhead:	Not Applicable
		Vertical Upward:	Not Applicable
		Vertical Downward:	Not Applicable

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NIPPON KAIJI KYOKAI

Approval No. NKY-3201
Certificate No. TA23357E

Certificate OF TYPE APPROVAL



Article: Welding Consumables for High Tensile Steels for Hull
Brand: GL-78
Applicant: Kim Tin Long An Corporation
Kien Thanh Industrial Zone, Long Cang, Can Duoc, Long An, Vietnam
Manufacturer: Kim Tin Long An Corporation
Kien Thanh Industrial Zone, Long Cang, Can Duoc, Long An, Vietnam
Grade: KMW53H10
Welding Process: Manual Welding
Welding Positions and Max. Diameter of Wire: See Table 1
Current: AC, DCEP or DCEN
Shielding Gas: Not Applicable

Table 1 Welding Positions and Max. Diameter of Electrode


Butt Weld		Fillet Weld	
Flat:	5.0mm	Flat:	5.0mm
Horizontal:	5.0mm	Horizontal Vertical:	5.0mm
Overhead:	5.0mm	Horizontal:	5.0mm
Vertical Upward:	5.0mm	Horizontal Overhead:	5.0mm
Vertical Downward:	Not Applicable	Overhead:	5.0mm
		Vertical Upward:	5.0mm
		Vertical Downward:	Not Applicable

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NIPPON KAIJI KYOKAI

Approval No. NKY-3202
Certificate No. TA23358E

Certificate OF TYPE APPROVAL

Article: Welding Consumables for Mild Steels for Hull
Brand: KT-421
Applicant: Kim Tin Long An Corporation
Kien Thanh Industrial Zone, Long Cang, Can Duoc, Long An, Vietnam
Manufacturer: Kim Tin Long An Corporation
Kien Thanh Industrial Zone, Long Cang, Can Duoc, Long An, Vietnam
Grade: KMW2
Welding Process: Manual Welding
Welding Positions and Max. Diameter of Wire: See Table 1
Current: AC, DCEP or DCEN
Shielding Gas: Not Applicable


Table 1 Welding Positions and Max. Diameter of Electrode

Butt Weld		Fillet Weld	
Flat:	5.0mm	Flat:	5.0mm
Horizontal:	5.0mm	Horizontal Vertical:	5.0mm
Overhead:	5.0mm	Horizontal:	5.0mm
Vertical Upward:	5.0mm	Horizontal Overhead:	5.0mm
Vertical Downward:	Not Applicable	Overhead:	5.0mm
		Vertical Upward:	5.0mm
		Vertical Downward:	Not Applicable

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Y. Takao
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