



NIPPON KAIJI KYOKAI

Approval No. NKY-3372
Certificate No. TA171022E

Certificate

OF TYPE APPROVAL FOR WELDING CONSUMABLE

Brand: MG-S88A / Ar-CO₂
 Applicant: Kobe Steel, Ltd., Fukuchiyama Plant
 Fukuchiyama, Kyoto, Japan
 Manufacturer: Kobe Steel, Ltd., Fukuchiyama Plant
 Fukuchiyama, Kyoto, Japan
 Grade: KSW4Y69G(M2)H5
 Welding Process: Semi-Automatic Welding (MIG Welding)
 Welding Positions and Max. Diameter of Wire: See Table 1
 Current: DCEP
 Shielding Gas: Ar+CO₂
 Applicable Parent Material: High Strength Rolled Steels for Offshore Structures

Table 1 Welding Positions and Max. Diameter of Wire

Butt Weld		Fillet Weld	
Flat:	1.2mm	Flat:	1.2mm
Horizontal:	1.2mm	Horizontal Vertical:	1.2mm
Overhead:	1.2mm	Horizontal:	1.2mm
Vertical Upward:	1.2mm	Horizontal Overhead:	1.2mm
Vertical Downward:	Not Applicable	Overhead:	1.2mm
		Vertical Upward:	1.2mm
		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 8 August 2018.






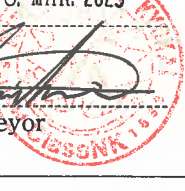



Issued at Tokyo on 9 August 2017.

H. Kobayashi
General Manager

Material and Equipment Department



Note : The validity of this certificate may be renewed by endorsement on the attached sheet upon completion of the annual inspections.

<p>The validity of this certificate has been renewed until <u>8. AUG. 2019</u>.</p> <p>Date: <u>31. AUG. 2018</u></p> <p><i>K. Kimoto</i> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>8. AUG. 2024</u>.</p> <p>Date: <u>28. MAR. 2023</u></p> <p><i>[Signature]</i> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>8. AUG. 2020</u>.</p> <p>Date: <u>29. MAR. 2019</u></p> <p><i>[Signature]</i> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>8. AUG. 2025</u>.</p> <p>Date: <u>29. MAR. 2024</u></p> <p><i>[Signature]</i> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>8. AUG. 2021</u>.</p> <p>Date: <u>27. MAR. 2020</u></p> <p><i>[Signature]</i> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>8. AUG. 2026</u>.</p> <p>Date: <u>26. MAR. 2025</u></p> <p><i>[Signature]</i> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>8. AUG. 2022</u>.</p> <p>Date: <u>30. MAR. 2021</u></p> <p><i>[Signature]</i> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>8. AUG. 2027</u>.</p> <p>Date: <u>27. MAR. 2026</u></p> <p><i>[Signature]</i> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>8. AUG. 2023</u>.</p> <p>Date: <u>28. MAR. 2022</u></p> <p><i>[Signature]</i> Surveyor</p> 	<p>The validity of this certificate has been renewed until _____.</p> <p>Date: _____</p> <p>_____ Surveyor</p>