



NIPPON KAIJI KYOKAI

Certificate

Approval No. NKY-3416
Certificate No. TA18936E

OF TYPE APPROVAL

Article : Welding Consumables
Brand : DW-S460GF / DW-S460GR / KL-4
[Wire / Wire / Backing]
Applicant : Kobe Steel Ltd., Ibaraki Plant
; Ibaraki, Osaka, Japan
Manufacturer : Kobe Steel Ltd., Ibaraki Plant
; Ibaraki, Osaka, Japan
Grade : KEW63Y47
Welding Process : Electro-Gas Welding
Welding Positions and Max. Diameter of Wire: See Table 1
Current : DCEP (DW-S460GF) and DCEN (DW-S460GR)
Shielding Gas : CO₂
Applicable Parent Material: High Tensile Steels for Hull

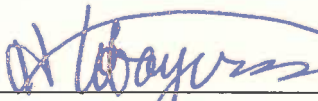
Table 1 Welding Positions and Max. Diameter of Wire


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


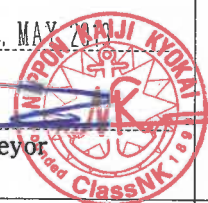



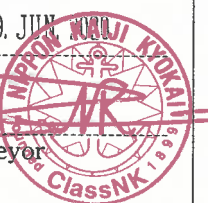

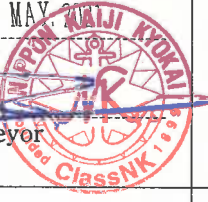

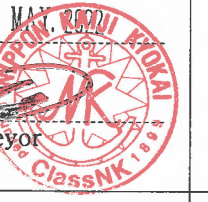
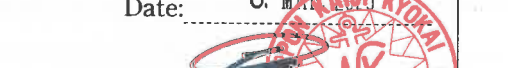
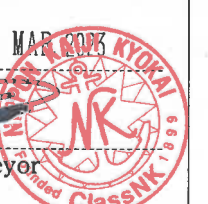
This Certificate will remain in force until 28 June 2019.

Issued at Tokyo on 29 June 2018.


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>28, JUN. 2020</u> .</p> <p>Date: <u>14, MAY, 2020</u></p> <p> Surveyor </p>	<p>The validity of this certificate has been renewed until <u>28, JUN. 2025</u> .</p> <p>Date: <u>17, MAY, 2025</u></p> <p> Surveyor </p>
<p>The validity of this certificate has been renewed until <u>28, JUN. 2021</u> .</p> <p>Date: <u>29, JUN, 2021</u></p> <p> Surveyor </p>	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed until <u>28, JUN. 2022</u> .</p> <p>Date: <u>14, MAY, 2022</u></p> <p> Surveyor </p>	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed until <u>28, JUN. 2023</u> .</p> <p>Date: <u>16, MAY, 2023</u></p> <p> Surveyor </p>	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>
<p>The validity of this certificate has been renewed until <u>28, JUN. 2024</u> .</p> <p>Date: <u>6, MAR, 2023</u></p> <p> Surveyor </p>	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>