



NIPPON KAIJI KYOKAI

Approval No. NKY-3378
Certificate No. TA171203E

Certificate

OF TYPE APPROVAL FOR WELDING CONSUMABLE

Brand: DW-100KP / FB-B3 / CO₂
[Wire / Backing Flux]
Applicant: Kobe Steel Ltd., Ibaraki Plant
Ibaraki, Osaka, Japan
Manufacturer: Kobe Steel Ltd., Ibaraki Plant
Ibaraki, Osaka, Japan
Grade: KSW52Y40G(C)H10
Welding Process: Semi-Automatic Welding (MAG Welding)
Welding Positions and Max. Diameter of Wire: See Table 1
Current: DCEP
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:	1.6mm	Flat:	Not Applicable
Horizontal:	1.6mm	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 25 October 2018.

Issued at Tokyo on 26 October 2017.

H. Kobayashi





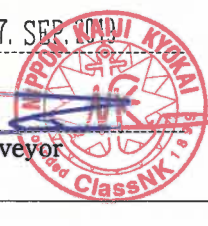



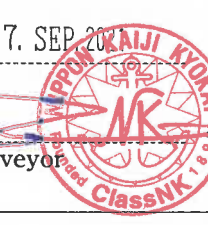


General Manager

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.

Certificate No. TA171203E

<p>The validity of this certificate has been renewed until 25. OCT. 2019 .</p> <p>Date: 28. SEP. 2019</p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until 25. OCT. 2024 .</p> <p>Date: 29. SEP. 2024</p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until 25. OCT. 2020 .</p> <p>Date: 27. SEP. 2019</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 25. OCT. 2021 .</p> <p>Date: 28. SEP. 2020</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 25. OCT. 2022 .</p> <p>Date: 27. SEP. 2021</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 25. OCT. 2023 .</p> <p>Date: 26. SEP. 2022</p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until .</p> <p>Date: .</p> <p>Surveyor</p>