



# NIPPON KAIJI KYOKAI

## Certificate

Approval No. NKY-2789  
Certificate No. TA14435E

OF

### TYPE APPROVAL FOR WELDING CONSUMABLE

Brand : DW-460L  
Manufacturer : Kobe Steel Ltd., Ibaraki Plant  
Ibaraki, Osaka, Japan  
Kind : Semi-Automatic Welding Consumable  
Purpose : For Quenched and Tempered High Tensile Steel  
and High Tensile Steel

Approval Condition :

Grade	Current	Position	Max. Dia. of Wire	Shield Gas
KSW5Y46G(C)H5	DCEP	Flat, Horizontal, Vertical Upward, Overhead,	F : 1.4mm, H : 1.4mm, VU : 1.4mm, OH : 1.4mm,	CO <sub>2</sub>
KSW63Y47G(C)H5		Horizontal Fillet, Vertical Downward Fillet, Overhead Fillet	H-F : 1.4mm, VD-F : 1.2mm, OH-F : 1.4mm	

Remarks : For annual inspection, tensile test and impact test for deposited metal are to comply with the requirements of Table1 (See the reverse side).

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 2015.  
Issued at Tokyo on 15 May 2014.



T. Imamura

General Manager





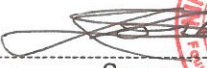

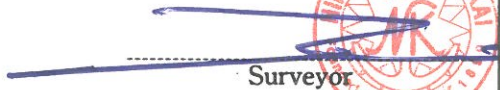
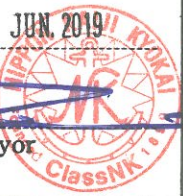










Material and Equipment Department

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

Table 1 Test Requirements for Deposited Metal

Tensile Test			Impact Test	
Tensile Strength (N/mm <sup>2</sup> )	Yield point (N/mm <sup>2</sup> )	Elongation (%)	Testing temperature (°C)	Minimum mean absorbed energy (J)
570~720	460 min.	20 min.	-20	53
			-60	47

Note: This certificate was rewritten because of change of the material grade.

<p>The validity of this certificate has been renewed until <u>3. MAR. 2016</u>.</p> <p>Date: <u>3. OCT. 2015</u></p> <p> Surveyor</p> 	<p><del>The validity of this certificate has been renewed until <u>3. MAR. 2020</u>.</del></p> <p><del>Date: <u>27. JUN. 2019</u></del></p> <p><del> Surveyor</del></p> 
<p>The validity of this certificate has been renewed until <u>3. MAR. 2017</u>.</p> <p>Date: <u>1. OCT. 2015</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>27. JUN. 2020</u>.</p> <p>Date: <u>27. JUN. 2019</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>3. MAR. 2018</u>.</p> <p>Date: <u>29. SEP. 2017</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>27. JUN. 2021</u>.</p> <p>Date: <u>29. JUN. 2020</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>3. MAR. 2019</u>.</p> <p>Date: <u>29. SEP. 2017</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>27. JUN. 2022</u>.</p> <p>Date: <u>28. JUN. 2021</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>3. MAR. 2020</u>.</p> <p>Date: <u>29. JUN. 2019</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until _____.</p> <p>Date: _____</p> <p>_____ Surveyor</p>