



NIPPON KAIJI KYOKAI

Certificate

Approval No. NKY-3204
Certificate No. TA15531E

OF

TYPE APPROVAL FOR WELDING CONSUMABLE

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

Approval Conditions :

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

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 28 May 2016.
Issued at Tokyo on 29 May 2015.



T. Imamura








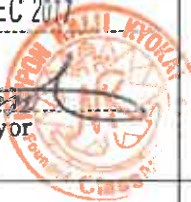




General Manager

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

<p>The validity of this certificate has been renewed until <u>28 MAY 2017</u> .</p> <p>Date: <u>12 DEC 2015</u></p> <p> Surveyor</p> <p></p>	<p>The validity of this certificate has been renewed until <u>28 May 2022</u> .</p> <p>Date: <u>4 Dec 2020</u></p> <p> Surveyor</p> <p></p>
<p>The validity of this certificate has been renewed until <u>28 May 2018</u> .</p> <p>Date: <u>16.12.20</u></p> <p> Surveyor</p> <p></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 May 2019</u> .</p> <p>Date: <u>20 DEC 2017</u></p> <p> Surveyor</p> <p></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 May 2020</u> .</p> <p>Date: <u>4 June 2019</u></p> <p> Surveyor</p> <p></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 May 2021</u> .</p> <p>Date: <u>4 DEC 2019</u></p> <p> Surveyor</p> <p></p>	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>



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