



# NIPPON KAIJI KYOKAI

## *Certificate*

Approval No. NKY-2324  
Certificate No. TA15244E

OF

### TYPE APPROVAL FOR WELDING CONSUMABLE

Brand : CSM-70T  
Manufacturer : Chosun Welding Co., Ltd., Onsan Plant  
Ulju-kun, Ulsan, Korea  
Kind : Semi-Automatic Welding Consumable  
Purpose : For Mild Steel and High Tensile Steel  
Approval Condition :  
Grade : KSW2G(C)H10 and KSW52G(C)H10  
Current : DCEP  
Position : Flat-Fillet and Horizontal-Fillet  
Max. Dia. of Wire : F-F : 1.6mm, H-F : 1.6mm  
Shield Gas : CO<sub>2</sub>  
Remark : For annual inspection, tensile test and impact test for deposited metal are to comply with the requirements Table (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 14 June 2015.  
Issued at Tokyo on 4 November 2014.




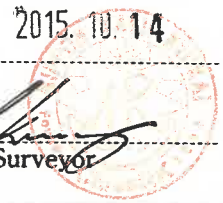

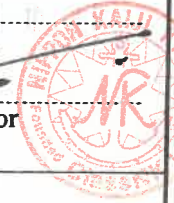



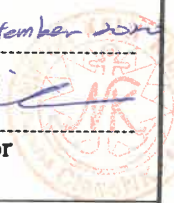










T. Imamura  
General Manager  
Material and Equipment Department

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

Table 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)
490~560	375 min.	22 min.	0	47

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

<p>The validity of this certificate has been renewed until <u>2016.06.14</u> .</p> <p>Date: <u>2015.10.14</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>2020.11.19</u> .</p> <p>Date: <u>2020.11.19</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>2017.06.14</u> .</p> <p>Date: <u>2016.04.04</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>19 September 2021</u> .</p> <p>Date: <u>29 September 2021</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>14 June 2018</u> .</p> <p>Date: <u>20 March 2017</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>2022.09.19</u> .</p> <p>Date: <u>2021.09.15</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>19 September 2018</u> .</p> <p>Date: <u>19 Sep. 2017</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>19 September 2023</u> .</p> <p>Date: <u>2022.09.05</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>19 September 2019</u> .</p> <p>Date: <u>12 October 2018</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>