



# NIPPON KAIJI KYOKAI

## Certificate

[Re-written]

Certificate No.  
NKY-2889

OF

### TYPE APPROVAL FOR WELDING CONSUMABLE

Brand : TG-S9Cb  
Manufacturer : Kobe Steel, Ltd., Fukuchiyama Plant  
Fukuchiyama, Kyoto, Japan  
Kind : TIG Welding Consumable  
Purpose : For Cr-Mo-Nb-V Steel  
Approval Condition :  
Grade : Manufacturer's Specification  
Current : DCEN  
Position : Flat, Horizontal, Vertical Upward  
and Overhead  
Max. Dia. of Wire : F : 3.2mm, H : 3.2mm, VU : 3.2mm,  
OH : 3.2mm  
Shield Gas : Ar  
Guaranteed Values for Manufacturer's Specification  
: See the reverse side  
Remarks : For application to the welding of piping system, boilers,  
pressure vessels, main propulsion and auxiliary machinery.

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 the 6th day of May, 2012.  
Issued at Tokyo on the 1st day of July, 2011.



H. Takano  
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.

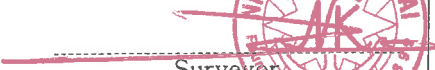



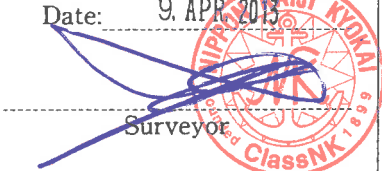
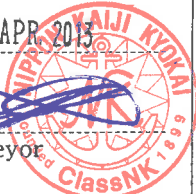



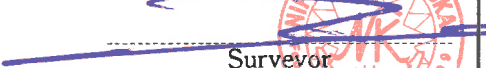
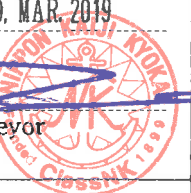

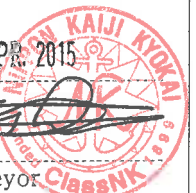

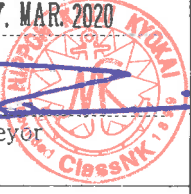


CS-2 e 2002.01

Required Values in Initial Approval Test :

Butt weld test : Tensile Strength  $\geq 585 \text{ N/mm}^2$   
Deposited metal test : Yield Point  $\geq 414 \text{ N/mm}^2$   
Tensile Strength  $\geq 621 \text{ N/mm}^2$   
Elongation  $\geq 16\%$

Required Values in Annual Inspections :

Deposited metal test : Yield Point  $\geq 414 \text{ N/mm}^2$   
Tensile Strength  $\geq 621 \text{ N/mm}^2$   
Elongation  $\geq 16\%$

<p>The validity of this certificate has been renewed until <u>6. MAY. 2013</u>.</p> <p>Date: <u>4. APR. 2012</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>6. MAY. 2018</u>.</p> <p>Date: <u>29. MAR. 2017</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>6. MAY. 2014</u>.</p> <p>Date: <u>9. APR. 2013</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>6. MAY. 2019</u>.</p> <p>Date: <u>30. MAR. 2018</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>6. MAY. 2015</u>.</p> <p>Date: <u>28. MAR. 2014</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>6. MAY. 2020</u>.</p> <p>Date: <u>29. MAR. 2019</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>6. MAY. 2016</u>.</p> <p>Date: <u>3. APR. 2015</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>6. MAY. 2021</u>.</p> <p>Date: <u>27. MAR. 2020</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>6. MAY. 2017</u>.</p> <p>Date: <u>9. APR. 2016</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>6. MAY. 2022</u>.</p> <p>Date: <u>30. MAR. 2021</u></p> <p> Surveyor</p> 