



# NIPPON KAIJI KYOKAI

Approval No. NKY-3304  
Certificate No. TA16539E

## Certificate

OF  
TYPE APPROVAL FOR WELDING CONSUMABLE

Brand: TG-S80AM/Ar  
Applicant: Kobe Steel, Ltd., Fukuchiyama Plant  
Fukuchiyama, Kyoto, Japan  
Manufacturer: Kobe Steel, Ltd., Fukuchiyama Plant  
Fukuchiyama, Kyoto, Japan  
Grade: KSW5Y69G(DH5)  
Welding Process: TIG Welding  
Welding Positions and  
Max. Diameter of Wire / Filler Rod: See Table 1 and Table 2 on the reverse side  
Current: DCEN  
Shielding Gas: Ar  
Applicable Parent Material: Quenched and Tempered High Tensile Steels for Structures

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 17 May 2017.  
Issued at Tokyo on 18 May 2016.



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.

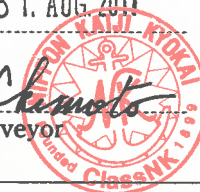



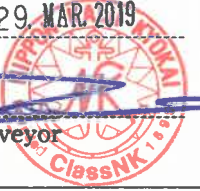

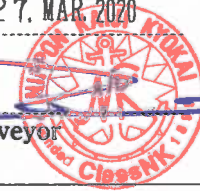

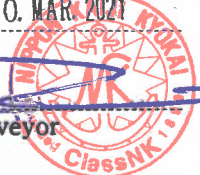
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Table 1 Welding Positions and Max. Diameter of Wire

Butt Weld		Fillet Weld	
Flat:	1.6mm	Flat:	1.6mm
Horizontal:	1.6mm	Horizontal Vertical:	1.6mm
Overhead:	1.6mm	Horizontal:	1.6mm
Vertical Upward:	1.6mm	Horizontal Overhead:	1.6mm
Vertical Downward:	Not Applicable	Overhead:	1.6mm
		Vertical Upward:	1.6mm
		Vertical Downward:	Not Applicable

Table 2 Welding Positions and Max. Diameter of Filler Rod

Butt Weld		Fillet Weld	
Flat:	2.4mm	Flat:	2.4mm
Horizontal:	2.4mm	Horizontal Vertical:	2.4mm
Overhead:	2.4mm	Horizontal:	2.4mm
Vertical Upward:	2.4mm	Horizontal Overhead:	2.4mm
Vertical Downward:	Not Applicable	Overhead:	2.4mm
		Vertical Upward:	2.4mm
		Vertical Downward:	Not Applicable

<p>The validity of this certificate has been renewed until <u>17. MAY. 2018</u> .</p> <p>Date: <u>31. AUG. 2017</u></p> <p><i>K. Shimoto</i> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>17. MAY. 2023</u> .</p> <p>Date: <u>28. MAR. 2022</u></p> <p><i>[Signature]</i> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>17. MAY. 2019</u> .</p> <p>Date: <u>30. MAR. 2018</u></p> <p><i>K. Shimoto</i> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>17. MAY. 2024</u> .</p> <p>Date: <u>28. MAR. 2023</u></p> <p><i>[Signature]</i> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>17. MAY. 2020</u> .</p> <p>Date: <u>29. MAR. 2019</u></p> <p><i>[Signature]</i> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>17. MAY. 2025</u> .</p> <p>Date: <u>29. MAR. 2024</u></p> <p><i>[Signature]</i> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>17. MAY. 2021</u> .</p> <p>Date: <u>27. MAR. 2020</u></p> <p><i>[Signature]</i> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>17. MAY. 2026</u> .</p> <p>Date: <u>26. MAR. 2025</u></p> <p><i>[Signature]</i> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>17. MAY. 2022</u> .</p> <p>Date: <u>30. MAR. 2021</u></p> <p><i>[Signature]</i> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>17. MAY. 2027</u> .</p> <p>Date: <u>27. MAR. 2026</u></p> <p><i>[Signature]</i> Surveyor</p> 