



# NIPPON KAIJI KYOKAI

## Certificate

Certificate No.  
NKY-3036

OF

### TYPE APPROVAL FOR WELDING CONSUMABLE

Brand : MG-1CM  
Manufacturer : Kobe Steel, Ltd., Fukuchiyama Plant  
Fukuchiyama, Kyoto, Japan  
Kind : Semi-Automatic Welding Consumable  
Purpose : For 1~1.25%Cr-0.5%Mo Steel  
Approval Condition :  
Grade : Manufacturer's Specification  
Current : DCEP  
Position : Flat, Horizontal, Vertical Upward and  
Overhead  
Max. Dia. of Wire : F : 1.6mm, H : 1.6mm, VU : 1.6mm  
OH : 1.6mm  
Shield Gas : CO<sub>2</sub>  
Guaranteed Values for Manufacturer's Specification : 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 29 August 2013.  
Issued at Tokyo on 30 August 2012.

  
Y. Usuki  
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.

Guaranteed Values for Manufacturer's Specification

Chemical Composition : See Table 1



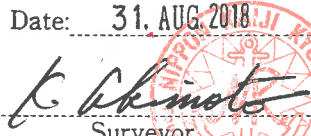



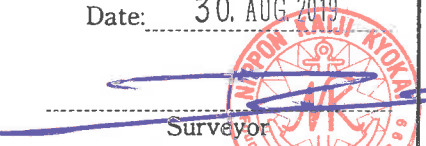
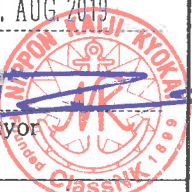










Mechanical Properties : See Table 2

Table 1 Chemical Composition of Deposited Metal (%)

C	Si	Mn	P	S	Cr	Mo	Ti
0.15	0.90	1.90	0.030	0.030	1.00	0.40	0.10
max.	max.	max.	max.	max.	~	~	max.
					1.60	0.65	

Table 2 Mechanical Properties

Deposited Metal Test			Butt Weld Test
Tensile Test			Tensile Test
Yield Point or Proof Stress (N/mm <sup>2</sup> )	Tensile Strength (N/mm <sup>2</sup> )	Elongation (%)	Tensile Strength (N/mm <sup>2</sup> )
450 min.	550 min.	15 min.	550 min.

<p>The validity of this certificate has been renewed until <u>29. AUG. 2014</u> .</p> <p>Date: <u>29. AUG. 2014</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>29. AUG. 2019</u> .</p> <p>Date: <u>31. AUG. 2018</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>29. AUG. 2015</u> .</p> <p>Date: <u>29. AUG. 2014</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>29. AUG. 2020</u> .</p> <p>Date: <u>30. AUG. 2019</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>29. AUG. 2016</u> .</p> <p>Date: <u>2. SEP. 2015</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>29. AUG. 2021</u> .</p> <p>Date: <u>31. AUG. 2020</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>29. AUG. 2017</u> .</p> <p>Date: <u>31. AUG. 2017</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until <u>29. AUG. 2022</u> .</p> <p>Date: <u>30. AUG. 2021</u></p> <p> Surveyor</p> 
<p>The validity of this certificate has been renewed until <u>29. AUG. 2018</u> .</p> <p>Date: <u>31. AUG. 2017</u></p> <p> Surveyor</p> 	<p>The validity of this certificate has been renewed until _____ .</p> <p>Date: _____</p> <p>_____ Surveyor</p>