NIPPON KAIJI KYOKAI

Approval No. NKY-3387
Certificate No. TA181374E

Certificate
OF
TYPE APPROVAL

Article	: Welding Consumables
Brand	: TGA-316L
Applicant	: Tien Tai Electrode Co., Ltd.
	: Tainan, Taiwan
Manufacturer	: Tien Tai Electrode Co., Ltd.
	: Tainan, Taiwan
Grade	: KY316LG(I)
	KY316LG(I)-YP275M-vE27M-196T
Welding Process	: TIG Welding
Welding Positions and Max. Diameter of Wire	: See Table 1
Current	: DCEN
Shielding Gas	: Ar
Applicable Parent Material	: Stainless Steels
Remarks:	For annual inspection, mechanical properties are to comply with the requirements specified in Table 2.

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 4 January 2019.
Issued at Tokyo on 28 November 2018.

H. Kobayashi
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:	4.0mm	Flat:	4.0mm
		Horizontal Vertical:	4.0mm
Horizontal:	4.0mm	Horizontal:	4.0mm
Overhead:	4.0mm	Horizontal Overhead:	4.0mm
		Overhead:	4.0mm
Vertical Upward:	4.0mm	Vertical Upward:	4.0mm
Vertical Downward:	Not Applicable	Vertical Downward:	Not Applicable

Table 2 Mechanical Properties

Deposited Metal Test				
Tensile Test			Impact Test	
0.2 % Proof stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)	Testing temperature (℃)	Minimum mean absorbed energy (J)
275 min.	510 min.	35 min.	−196	27

Note: This certificate was rewritten because of addition of welding positions and grade of welding consumable and change of max. diameter of wire.

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The validity of this certificate has been renewed until 4th January 2020. Date: 3 December 2018 Surveyor	The validity of this certificate has been renewed until . Date: Surveyor
The validity of this certificate has been renewed until 4th January 2021. Date: 12 December 2019 Surveyor	The validity of this certificate has been renewed until . Date: Surveyor
The validity of this certificate has been renewed until 4th January 2022. Date: 9 December 2020 Surveyor	The validity of this certificate has been renewed until . Date: Surveyor
The validity of this certificate has been renewed until 4th January 2023. Date: 8 December 2021 Surveyor	The validity of this certificate has been renewed until . Date: Surveyor
The validity of this certificate has been renewed until . Date: Surveyor	The validity of this certificate has been renewed until . Date: Surveyor