



Certificate for Welding Consumable TFW-307L

Project: **Supplementary List of Certified Welding Consumable**

Client: **TIEN TAI ELECTRODE CO., LTD.**

Office: **Kaohsiung**

Client's Order Number: **Unknown**

Date: **05 January 2022**

Order Status: **Completed**

Inspection Dates

First: **06 October 2021**

Final: **08 December 2021**

This certificate is issued to

the above client to certify that the welding consumable listed herein have examined at the client's premises as follows:

Trade Name	Classification	Welding Process	Shielding Gas	Welding Positions	Wire Sizes
TFW-307L	AWS A5.22 (2012), EGT1-1	FCAW	100 % CO ₂	DXVuO	1.2 mm

Scope of Examination

The Following mechanical and chemical tests were carried out and witnessed by undersign and results as below:

Deposit metal mechanical properties

Tensile	0.2%Y.S.	1% Y.S.	T.S.	Elongation	Charpy	1	2	3	Average
Unit	MPa	MPa	MPa	%	-	Joule	Joule	Joule	Joule
Required	375-455	-	550-615	30	At -20°C	-	-	-	41
Value	435	453	565	47	At -20°C	92	90	97	93

Weld metal chemical analysis (WT%)

	C	Mn	Si	P	S	Ni	Cr	Mo	Cu
Required	0.04 Max	3.3-5.8	1.0 Max	0.04 Max	0.03 Max	9.0-10.5	18.0-20.5	0.5-1.5	0.5 Max
Value	0.039	5.0	0.46	0.03	0.014	9.99	18.2	0.69	0.133

Conclusion

Welding consumable used when required is subject to the satisfaction of the attending surveyor.

This certificate will be expired on 13 April 2023.



L.M. Wei
Surveyor to Lloyd's Register Inspection Limited

a member of the Lloyd's Register group.

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