



**APPROVAL OF WELDING CONSUMABLES CERTIFICATE**  
No. QBI011420WT/001

This is to certify that the following product, in view of the tests carried out, has been approved.

<i>Description</i>	<b>Covered electrodes for manual welding</b>
<i>Type</i>	<b>TNM-9</b>
<i>Class</i>	<b>UP H5 BASIC COVERING</b>
<i>Applicant</i>	<b>UP H5</b>
<i>Manufacturer</i>	<b>TIEN TAI ELECTRODE CO., LTD</b>
<i>Place of manufacture</i>	<b>NO. 6 KAIFA 4TH RD., RENDE DIST., Tainan TAIWAN</b>
<i>Reference standards</i>	<b>Part D, Chapter 5, Section 2 of RINA Rules for the classification of ships</b>

The approval is valid for one year and can be reconfirmed subject to the satisfactory outcome of the prescribed control tests.

Issued in RINA Hong Kong Marine on January 15, 2021. This Certificate is valid until December 9, 2021



RINA Services S.p.A.  
Fu Guo Chen

This certificate consists of this page and 1 enclosure



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**TNM-9**

TIEN TAI ELECTRODE CO., LTD	NO. 6 KAIFA 4TH RD., RENDE DIST., Tainan - TAIWAN
Class	TNM-9, UP H5
Diameters	2.6, 3.2 & 4.0 mm mm
Welding positions	all positions excluding vertical in downward direction
Type of current	AC/DC(+)
Notes	Welding of 9% Ni alloy steels. Test specification as per document no. R202012-01 dated 09/12/2020. Minimum average energy of 34J at -196deg.C specified for Charpy-V notch specimens on deposited metal and butt weld joint.

**RINA Hong Kong Marine January  
15, 2021**