



## CERTIFICATE OF APPROVAL OF WELDING CONSUMABLE FOR SHIP CONSTRUCTION

This certificate is issued to the company named below. The welding consumable or combination described has been tested in accordance with the requirements of Lloyd's Register for use in ship construction. This approval is subject to annual tests being carried out in accordance with the requirements of Lloyd's Register. The continued validity of this approval will be confirmed by appropriately dated Annual Reapproval Certificates issued to the company.

|                                   |   |
|-----------------------------------|---|
| <b>Company</b>                    | <b>Tien Tai Electrode (Kunshan) Co., Ltd</b>  |
| <b>Address</b>                    | No. 189 Hua Yuan Road, Zhangpu Town, Kunshan, 215321, China   |
| <b>Type of welding consumable</b> | Section 4 - 2 x Solid Wire/Flux   |
| <b>Trade name</b>                 | 2 x TSW-14HE/TF-650   |
| <b>Welding Process</b>            | Submerged Arc Welding   |
| <b>Grade &amp; Technique</b>      | 4Y40M   |
| <b>Welding Positions</b>          | Downhand only.  |
| <b>Weld Type</b>                  | Butt Welding Only.  |
| <b>Diameter (mm)</b>              | 2.4 - 5.0   |
| <b>Current</b>                    | AC/DC(+)  |
| <b>Remarks</b>                    | Approved low hydrogen consumable, conforming to standard H5.<br>DC+ current for 1st wire and AC current for 2nd wire. |

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

**Jaspal Nirankari**

Welding Team Leader to Lloyd's Register  
EMEA  
A member of the Lloyd's Register group

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