



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.

Name of Company: *HOBART BROTHERS CO, TUBULAR WIRE BUSINESS - HOBART, UNITED STATES OF AMERICA*

Type of Welding Consumable: *Section 5 - Flux-Cored Wire (Self Shielding)*

Trade Name: *Fabshield Offshore 71 Ni*

Welding Position: *Downhand, horizontal-vertical, vertical upward and overhead only.*

Joint Type: *Butt and Fillet Welding.*

Grade: *4Y, suitable for welding steel Grade(s) FH36, FH32, FH27S, E (and any corresponding strength grade(s) of lower toughness), using semi-automatic flux cored arc welding. (Approved also for automatic multirun welding in the downhand position only.)*

Remarks: *Approved low hydrogen consumable, conforming to standard H10. Approved for wires of 2.0mm diameter only.*

Date: *20 December 2012*
Valid until: *20 December 2013*

J S Nirankari

Surveyor to Lloyd's Register EMEA
On behalf of Lloyd's Register Group