

**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: ***KOBE STEEL LIMITED,  
FUKUCHIYAMA PLANT, JAPAN***

Type of Welding Consumable: ***Section 8 - Solid Wire/Flux***

Trade Name: ***US-2209/PF-S1D***

Welding Position: ***Downhand only.***

Joint Type: ***Butt Welding Only.***

Grade: ***S 31803, suitable for welding stainless steel Grade(s) S 31803 for chemical use only, using automatic multirun submerged arc welding.***

***S 31803, suitable for welding stainless steel Grade(s) S 31803 for chemical use only, using automatic two-run submerged arc welding.***

Remarks: ***Application of two-run automatic welding is limited to plates of 15mm maximum thickness.  
Confirmed Critical Pitting Temperature of 25 °C.***

Date: ***23 August 2019***

Valid until: ***22 August 2020***

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**J S Nirankari**

Principal Specialist to Lloyd's Register EMEA  
A member of the Lloyd's Register group