

## Welding Consumable: Approval Certificate

Office:

Mumbai-Port

Date:

22 April 2016

This Certificate is issued to Senor Metals Pvt. Ltd., to certify that the undernoted welding consumable is recommended for entry in the supplementary list of certified welding consumable in accordance with AWS A5.8/A5.8M, specification of the year 2004. This certificate is issued on the basis of satisfactory test results on the test coupons prepared on 1 March 2016 and subsequently tested on 14 March 2016. Welding consumable is manufactured by Senor Metals Pvt. Ltd, Jamnagar, India

## Description:

Consumable name

: SM 19

Size

: 2.50 mm

SFA Classification

: AWS A5.8 Gr. RB Cu Zn-C

Results of test

| 2.50mm       |
|--------------|
| Not Required |
| Not Required |
| Not Required |
| Not Required |
| Acceptable   |
| Acceptable   |
| Not Required |
|              |

Chemical Analysis- Size: 1.20mm

|        | Cu        | Sb       | Zn        | Pb      | Fe        | Al      | Other    |
|--------|-----------|----------|-----------|---------|-----------|---------|----------|
|        | %         | %        | %         | %       | %         | %       | %        |
| Range  | 56.0-60.0 | 0.8-1.00 | Remaining | 0.05max | 0.25-1.20 | 0.01max | 0.50 max |
| Result | 57.07     | 0.85     | Remaining | <0.001  | 0.33      | <0.010  | 0.040    |

|        | Si        | Mg        |  |
|--------|-----------|-----------|--|
|        | %         | %         |  |
| Range  | 0.04-0.15 | 0.01-0.50 |  |
| Result | 0.18      | 0.25      |  |

Certificate is valid until 13 March 2017.



A subsidiary of Lloyd's Register Group Limited

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.