

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 12

Size

: 2.50 mm

SFA Classification

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

Results of test

| | 2.50mm | |
|--------------------|--------------|--|
| 0.2% Proof stress | Not Required | |
| UTS | Not Required | |
| % Elongation | Not Required | |
| Impact at -50deg C | Not Required | |
| Chemical | Acceptable | |
| Radiography | Acceptable | |
| Fillet(H,V, OH) | Not Required | |

Chemical Analysis- Size: 1.20mm

| | Cu | Sb | Zn | Pb | Fe | Al | Other |
|--------|-----------|-----------|-----------|---------|------------------|---------|----------|
| | % | % | % | % | % | % | % |
| Range | 57.0-61.0 | 0.25-1.00 | Remaining | 0.05max | Not Specified | 0.01max | 0.50 max |
| Result | 59.33 | 0.84 | Remaining | <0.001 | <0.010 | <0.010 | 0.035 |

| | Si | Mg | |
|--------|------------------|------------------|--|
| | % | % | |
| Range | Not specified | Not specified | |
| Result | <0.010 | <0.010 | |

Certificate is valid until 13 March 2017.



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