



## 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 A5.7/A5.7M, specification of the year 2007. 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 51  
Size : 2.50 mm  
SFA Classification : AWS A5.7 Gr. ER Cu Al A1

### 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	Not Required
Fillet( H,V, OH )	Not Required

### Chemical Analysis- Size: 2.50mm

	Cu	Zn	Pb	Al	Other	Si	Mn
	%	%	%	%	%	%	%
Range	Remaining	0.20 max	0.02	6.0-8.5	0.50 max	0.10 max	0.50 max
Result	Remaining	<0.010	<0.001	8.13	0.020	0.015	0.27

Certificate is valid until 13 March 2017.

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