

## 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 31

Size

: 2.50 mm

SFA Classification

: AWS A5.7 Gr. ER Cu Si 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	Not Required
Fillet( H,V, OH )	Not Required

Chemical Analysis- Size: 2.50mm

	Cu + Aq	Sn	Zn	Pb	Fe	Al	Other
	%	-%	%	%	%	%	%
Range	Remaining	1.0 max	1.0 max	0.02 max	0.50 max	0.01 max	0.50 max
Result	Remaining	<0.001	0.051	0.003	0.052	<0.010	0.015

	Si	Mn	
	%	%	
Range	2.8-4.0	1.5 max	
Result	3.03	1.02	

Certificate is valid until 13 March 2017.



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