



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 41
Size : 2.50 mm
SFA Classification : AWS A5.7 Gr. ER Cu Sn 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	Sn	Pb	Al	Other	P
	%	%	%	%	%	%
Range	Remaining	4.0-6.0	0.02 max	0.01 max	0.50 max	0.10-0.35
Result	Remaining	5.84	<0.001	<0.010	0.030	0.23

Certificate is valid until 13 March 2017.

[Signature]
Mumbai Port Office
 Mandar Kumar
 Surveyor to Lloyd's Register Asia
 Lloyd's Register

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