



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 A5.10/A5.10M, specification of the year 2012. This certificate is issued on the basis of satisfactory test results on the test coupons prepared on 1 March 2016 and subsequently tested on 16 March 2016. Welding consumable is manufactured by Senor Metals Pvt. Ltd, Jamnagar, India

Description:

Consumable name : ER 5356
Size : 1.20 mm
SFA Classification : AWS A5.10 ER 5356

Results of test

	1.20mm
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

	Ni	Cu	Sn	Zn	Pb	Fe	Be
	%	%	%	%	%	%	%
Range	Not specified	0.30 max	Not specified	0.10 max	Not specified	0.4 max	0.0003 max
Result	<0.010	0.014	<0.010	<0.010	<0.010	0.16	<0.0001

	Ti	Mg	Cr	Si	Mn	other	Al
	%	%	%	%	%	%	%
Range	0.06-0.2	4.5-5.5	0.05-0.2	0.25 max	0.05-0.2	0.15 max	Remaining
Result	0.084	4.76	0.11	0.12	0.12	<0.010	Remaining

Certificate is valid until 15 March 2017.

M
Mumbai Port Office
Lloyd's Register Asia
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Surveyor to Lloyd's Register Asia



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