



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 21
Size : 2.50 mm
SFA Classification : AWS A5.8 Gr. RB Cu Zn-D

Results of test

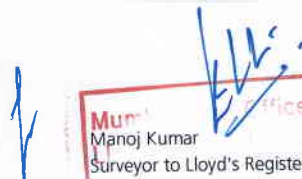
	2.50mm
0.2% Proof stress	Not Required
UTS	Not Required
% Elongation	Not Required
Impact at -50deg C	Not Required
Chemical	Acceptable
Radiography	Acceptable
Fillet(H,V, OH)	Not Required

Chemical Analysis- Size: 1.20mm

	Cu	Ni	Zn	Pb	Al	Other	P
	%	%	%	%	%	%	%
Range	46.0-50.0	9.0-11.0	Remaining	0.05max	0.01 max	0.50	0.25 max
Result	48.89	9.85	Remaining	<0.001	<0.010	0.1	0.001

	Si
	%
Range	0.04-0.25
Result	0.23

Certificate is valid until 13 March 2017.


Mumbai Office
Manoj Kumar
Surveyor to Lloyd's Register Asia

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