



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 23
Size : 2.50 mm
SFA Classification : AWS A5.7 Gr. ER Cu Ni

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: 2.50mm

	Ni + Co	Cu + Ag	Pb	Fe	Ti	S	Other
	%	%	%	%	%	%	%
Range	29.0-32.0	Remaining	0.02	0.40-0.75	0.20-0.50	0.01 max	0.50 max
Result	29.02	Remaining	<0.001	0.60	0.25	0.009	0.020

	Si	Mn	P
	%	%	%
Range	0.25	1.0 max	0.02 max
Result	0.018	0.65	0.012

Certificate is valid until 13 March 2017.

Mumbai Office
Manoj Kumar, Surveyor to Lloyd's Register Asia
Lloyd's Register

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