

## 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 5183

Size

: 1.20 mm

SFA Classification

: AWS A5.10 ER 5183

Results of test

Tresuits 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	0.8max	0.0003 max
Result	<0.010	0.013	<0.010	<0.010	<0.010	0.13	<0.0001

	Ti	Mg	Cr	Si	Mn	other	Al
	%	%	%	%	%	%	%
Range	Not specified	4.3-5.2	Not specified	0.40 max	0.05max	0.15 max	Remaining
Result	0.086	4.89	0.12	0.089	0.70	<0.010	Remaining

Certificate is valid until 15 March 2017.



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