



Welding Consumable: Approval Certificate

Office: **Mumbai-Port**

Date: **18 May 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 ASME Section II, Part C, SFA 5.4, specification of the year 2015. This certificate is issued on the basis of satisfactory test results on the test coupons prepared on 1 March 2016 and subsequently tested on 22 March 2016. Welding consumable is manufactured by Senor Metals Pvt. Ltd. Jamnagar, India

Description:

Consumable name : SME 316L-16
Size : 2.5, 3.15, 4.0 mm
SFA Classification : SFA 5.4 AWS CL.E

Results of test

	2.50mm	3.15mm	4.00 mm
Yield Strength	Not Required	461 N/mm ²	477 N/mm ²
UTS	Not Required	594 N/mm ²	598 N/mm ²
% Elongation	Not Required	45.20	36.00
Impact at -50deg C	Not Required	--	--
Chemical	Acceptable	Acceptable	Acceptable
Radiography	Acceptable	Acceptable	Acceptable
Fillet(H,V, OH)	Not Required	Acceptable	Acceptable

Chemical Analysis- Size: 2.5mm

	C	Mn	Si	S	P	Ni	Mo	Cr	Cu
	%	%	%	%	%	%	%	%	%
Range	0.04 max	0.5-2.5	1.00	0.03	0.04	11-14	2-3	17-20	0.75
Result	0.026	0.62	0.78	0.008	0.040	11.72	2.48	17.10	0.49

Chemical Analysis- Size: 3.15mm

	C	Mn	Si	S	P	Ni	Mo	Cr	Cu
	%	%	%	%	%	%	%	%	%
Range	0.04 max	0.5-2.5	1.00	0.03	0.04	11-14	2-3	17-20	0.75
Result	0.024	0.67	0.77	0.015	0.028	12.06	2.60	17.75	0.15

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Chemical Analysis- Size: 4mm

	C	Mn	Si	S	P	Ni	Mo	Cr	Cu
	%	%	%	%	%	%	%	%	%
Range	0.04 max	0.5-2.5	1.00	0.03	0.04	11-14	2-3	17-20	0.75
Result	0.029	0.87	0.45	0.007	0.030	11.04	2.17	19.16	0.12

Certificate is valid until 21 March 2017.


KM
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