R Welding Consumable : Statement of Fact

Project: Supplementary list of Welding consumables

Client:	Ador Welding Limited, Silvasa plant, India	Office:	Mumbai
Client's Order Number:		Date:	02 June 2023
		Order Status:	Complete
Inspection Dates First:	04 April 2023	Final:	02 June 2023

This statement is issued to Ador Welding Limited, Silvasa plant, India to certify that the undernoted welding consumable is recommended for entry in the supplementary list of certified welding consumables in accordance with ASME Section II Part C, SFA 5.1, E7018-1 specification of the year 2021. This statement is issued on the basis of satisfactory test results on the test coupons prepared on 04/04/203 and subsequently tested on 02/06/2023.

Welding consumables is manufactured by Ador Welding Limited, Silvasa plant, India.

Description:-

Consumable Name : TENALLOY S PLUS						
Size	: 4.0 and 5.0 mm					
SFA Classification	: SFA / AWS 5.1 E 7018-1 H4R					

Result of the Test :

Size	4.0 x 450 mm	5.0 X 450 mm		
0.2%Proof Stress	472	484		
(MPa) (Min.: 400MPa)				
UTS (MPa) (Min.:	558	569		
490MPa)				
% Elongation (Min.	29	26		
22%)				
Hydrogen test	Acceptable	Acceptable		
Chemical	Acceptable	Acceptable		
Radiography	Acceptable	Acceptable		
Fillet (H,V,OH)	Not Required	Not Required		
Charpy V notch Impact	test at -45Deg C. A	Acceptable value:		
27J average and 20J inc	lividual			
1	98*	92*		
2	78	82		
3	68	54		
4	58	32		
5	66*	70*		
Average value (J)	85	69		

Note: ' * ' - Indicates highest and lowest discarded values.



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Diffusible Hydrogen Test:

	Size	Actual Result (1)	Actual Result (2)	Actual Result (3)	Avera ge	Max	
Millilitres per 100 grams of Weld Metal	4.0 mm	3.744	3.658	3.718	3.706	4	
Millilitres per 100grams of Weld Metal	5.0 mm	3.811	3.833	3.929	3.858	4	

Moisture Test:

	Size	Actual Result	Max
Moisture (% by Weight)	4.0 mm	0.161 %	0.3 %
Moisture (% by Weight)	5.0 mm	0.183 %	0.3 %

Chemical Analysis - Size 4.0 X 450 mm

	% C	% Cr	% Ni	% Mo	% Mn	% Si	% P	% S	% Cu	%V	% Mn+Cr+Mo+V+Ni
Range	0.15	0.20	0.30	0.30	1.60	0.75	0.035	0.035	0.50	0.08	1.74
_	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
Result	0.074	0.039	0.013	0.001	1.37	0.31	0.019	0.012	< 0.023	0.008	1.43

Chemical Analysis - Size 3.15 X 1000 mm

	% C	% Cr	% Ni	% Mo	% Mn	% Si	% P	% S	% Cu	%V	Mn+Cr+Mo+V+Ni %
Range	0.15	0.20	0.30	0.30	1.60	0.75	0.035	0.035	0.50	0.08	1.74
	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
Result	0.072	0.039	0.013	0.001	1.37	0.30	0.019	0.010	< 0.023	0.008	1.43

Refer Radiography Report No. Global-013, results found acceptable.

For diffusible Hydrogen AM23/01974-2, dated 29/05/2023 & AM23/01974-4, dated 29/05/2023, Moisture Test report AM23/01974-2, dated 29/05/2023 & AM23/01974-4, dated 29/05/2023.

The works of above manufacturer were inspected at the location stated and found in satisfactory order. The process of manufacture including supervision, quality control and record keeping were of adequate standard and storage condition and facilities were found to be satisfactory as well.

Statement is Valid until 31 March 2024

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