

Tarbiat Modares University

Faculty of Engineering

T.M.U

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ELECTROCHEMICAL TEST REPORT

Type Of Material	Al Sacrificial Anode
Client	Danesh Aria Co. (The Selection Of The Testing Sample Has Been Done By The Client)
Date	21 Feb 2021
Report Number	99120302
Initial Anode Specimen Weight	10.686 g
Final Anode Specimen Weight	9.603 g

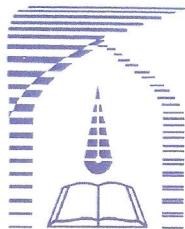
Electrochemical Properties				
Sample Number	Closed Circuit Potential(V)	Open Circuit Potential(V)	Electrochemical Capacity(A-h/kg)	Consumption Rate(kg/A-yr)
01	-1.12	-1.14	2569	3.4

Acceptance Criteria According To DNV-RP-B401 & BS 7361 Standards			
Closed Circuit Potential(V)	Open Circuit Potential(V)	Electrochemical Capacity(A-h/kg)	Consumption Rate(kg/A-yr)
-1.05 or more negative vs. Ag/AgCl/seawater reference electrode	-1.10 or more negative vs. Ag/AgCl/seawater reference electrode	2500 min	3.5 max

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Manager of Corrosion
T. SHAHRABI
& Protection Lab



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Test Conditions Maintained Throughout The Test Cycle

pH	8.2
Resistivity	30 ohm-cm
Temperature	20 ± 3°C
Test Duration	96 h
Anode Specimen Current Output On The First Day	23.5 mA
Anode Specimen Current Output On The Second Day	6.28 mA
Anode Specimen Current Output On The Third Day	62.8 mA
Anode Specimen Current Output On The Forth Day	23.5 mA
Saturated With Oxygen	

Corrosion & Protection Lab
Dr. T. Shahrabi

