INVESTIGATION OF FILLER MATERIAL TO THE CORROSION BEHAVIOUR OF ALUMINUM ALLOYS WELDMENT

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Report submitted in partial fulfillment of the requirements for the award of Bachelor of Mechanical Engineering

Faculty of Mechanical Engineering
UNIVERSITI MALAYSIA PAHANG

JUNE 2012

UNIVERSITI MALAYSIA PAHANG

FACULTY OF MECHANICAL ENGINEERING

I certify that the project entitled "Investigation of Filler Material to The Corrosion Behavior of Aluminum Alloys Weldment" is written by Abdul Rahim bin Mohamed. I have examined the final copy of this project and in my opinion, it is fully adequate in terms of scope and quality for the award of degree of Bachelor Engineering. I herewith recommend that it be accepted in partial fulfillment of the requirements for the degree of Bachelor Mechanical Engineering.

Examiner: Mr. Rosmazi bin Rosli Signature

SUPERVISOR'S DECLARATION

We hereby declare that we have checked this project report and in our opinion this project is satisfactory in terms of scope and quality for the award of the degree of Bachelor of Mechanical Engineering with.

Signature :

Name of Supervisor : Mdm Nur Azhani bt Abd Razak

Position : Lecturer

Date : 1 June 2012

STUDENT'S DECLARATION

I hereby declare that the work in this report is my own except for quotations and summaries which have been duly acknowledged. The report has not been accepted for any degree and is not concurently submitted for award of other degree.

Signature :

Name : ABDUL RAHIM BIN MOHAMED

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Date : 24 JUNE 2012

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AC	Alternative current
DC	Direct current
UMP	Universiti Malaysia Pahang
GMAW	Gas Metal Arc Welding
GTAW	Gas Tungsten Arc Welding
TIG	Tungsten Inert Gas
SEM	Scanning Electron Microscope
NaCl	Sodium Chloride
H_2O	Water
O_2	Oxygen
Cl^-	Chloride
MIG	Metal Inert Gas
SMAW	Shielded Metal Arc Welding
SEM	Scanning Electron Microscope
MAG	Metal Arc Gas
CP	Corrosion product
Mg_2Si	Magnesium Silica
FYP	Final Year Project
Cu	Copper
Si	Silicon
Fe	Ferum
Mn	Mangan
Mg	Magnesium

Cr	Chromium
Zn	Zinc
Ti	Titanium
HAZ	Heat affected zone
OH	Hydroxide
HF	Hydrofluoric acid