

INFLUENCE OF DIFFERENT SINTERING TEMPERATURE  
ON MECHANICAL BEHAVIOR OF ALUMINA ( $Al_2O_3$ )  
REINFORCED ALUMINUM METAL MATRIX COMPOSITE  
(Al MMC)

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# UNIVERSITI MALAYSIA PAHANG

## BORANG PENGESAHAN STATUS TESIS ♦

**JUDUL: INFLUENCE OF DIFFERENT SINTERING TEMPERATURE ON MECHANICAL BEHAVIOUR OF ALUMINA (AL<sub>2</sub>O<sub>3</sub>) REINFORCED ALUMINUM METAL MATRIX COMPOSITE (AL MMC)**

**SESI PENGAJIAN: 2008/2009**

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A report submitted in partial fulfilment of the requirements  
for the award of the degree of  
Bachelor of Mechanical Engineering

Faculty of Mechanical Engineering  
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I hereby declare that the work in this thesis entitled “Influence of Different Sintering Temperature on Mechanical Behaviour of Alumina ( $\text{Al}_2\text{O}_3$ ) Reinforced Aluminum Metal Matrix Composite (Al MMC)” is my own research except for quotations and summaries which have been duly acknowledged. The thesis has not been accepted for any degree and is not concurrently submitted in candidature of any other degree.

Signature :

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**LIST OF SYMBOLS**

$\mu$	micro
$\rho$	neck-profile radius
mm	millimetre
kg	kilogram
$F$	Force
$A$	Area
$d$	diagonal length
$\theta$	angle
$T_m$	melting point

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**LIST OF ABBREVIATIONS**

Al	Aluminium
Al <sub>2</sub> O <sub>3</sub>	Alumina
ASTM	American Society for Testing and Materials
CMC	Ceramic Matrix Composites
PM	Powder Metallurgy
MMC	Metal Matrix Composite
SiC	Silicon Carbide
VHN	Vickers Hardness Number
ISO	International Standard Organization