



# NORHAMIDI MUHAMAD

Professor (Dr.)

## RESEARCH

Actively involved in material processing research with particular interests in Metal and Micro Injection Moulding, Co-Powder Injection Moulding, Metal-Polymer Injection Moulding and Powder Forming Processes. Currently, he is also a President of the Malaysian Powder Metallurgy and Particulate Material Association (MPM2A) and head for Technology and Engineering Domain and Basic Infrastructure Cluster of the Ministry of Higher Education Research Grant Scheme.

## ACADEMIC QUALIFICATIONS

- **BSc** (Mechanical Engineering) University of Bridgeport, Connecticut, USA (1986)
- **MSc.** (Design & Economic Manufacturing) University of Swansea, Wales (1988)
- **Ph.D.** (Mechanical Engineering) University of Swansea, Wales (1993)

## EXPERTISE

Material Processing Technology,  
Powder Metallurgy,  
Manufacturing Engineering  
Engineering Management

## RESEARCH GROUP

- Advanced Manufacturing Research Group (AMREC)
- Precision Process Research Group (PERSIS)

For list of publications and current research grants, please click [UKM Sarjana](#).

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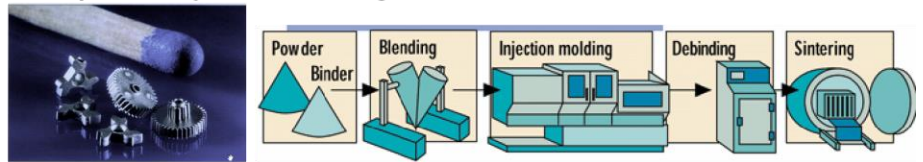
## CONTACT

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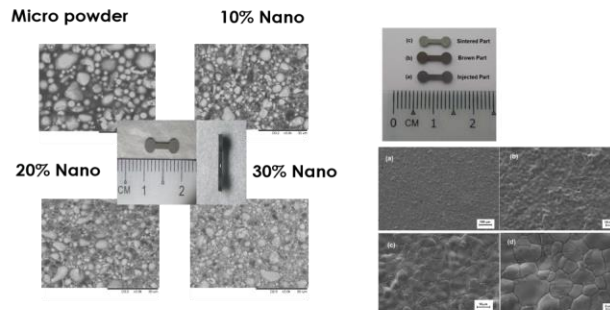
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## RESEARCH AT A GLANCE

### Micro powder injection Moulding Processes



### Micro Powder Injection Moulding Using Nano Sized Powders



Usage of nano-powder led to a decreased in injection and sintering temperature

### Effects of Vanadium Carbide in Micro-powder Injection Moulding of WC-10%Co

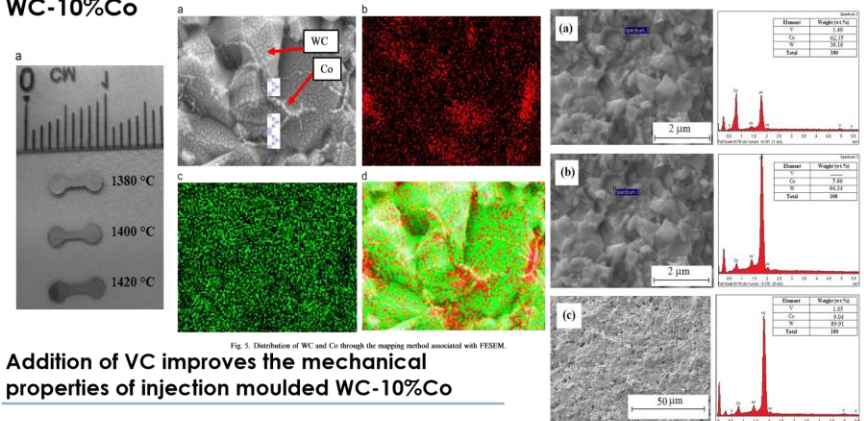


Fig. 5. Distribution of WC and Co through the mapping method associated with FESEM.

Addition of VC improves the mechanical properties of injection moulded WC-10%Co

Fig. 6. EDS results of the fracture surface of sintered part at 1400 °C and holding time 30 min: (a) grain boundary, (b) inside the grain and (c) in area.