

Production of Abrasive Sandpaper using Periwinkle Shells and Crab Shells

Ambali Ibrahim Owolabi, Shuaib-Babata Yusuf Lanre, Abdulqadir Lawal Babatunde, Ibrahim Hassan Kobe, Aremu Ishaq Na'allah and Ibraheem Taofeek Olatwale



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ABSTRACT

In this study, the properties of periwinkle shell and crab shell grains, such as hardness, compressive strength and wear resistance were examined for their suitability as abrasive materials. The binding effect of polyester resin at high concentration was also considered. Through the process of crushing, grinding and subsequently sieving using ASTM E11 set of sieves, the shells were processed into grit standards grain sizes of P40 and P60. Furthermore, by mixing and mould compression using a hydraulic press polymer matrix composite with particles varying from 96 wt.% to 92 wt.% and resin 3 wt.% to 7 wt.% with 1 wt.% each of cobalt naphthalene and methyl ethyl ketone peroxide hardener respectively were developed from the grits. It was found that, with an increase in polyester resin content, the hardness and compressive strength increased, while the wear rate decreased. The composition with 92 wt.% periwinkle shell grains to 7 wt.% polyester resin was found to be with the most improved abrasive properties.

Keywords: Abrasive properties, Periwinkle shell, Crab shell, Wear Rate

1 INTRODUCTION

In shaping, finishing and polishing of other materials, abrasive materials which are very rigid mineral materials are used. The abrasive materials are processed in a furnace after which they can further be crushed and sifted into different grain sizes called grits [1]. Hardness, brittleness, character of fracture, toughness, grain shape and grain size, purity and uniformity of the grains are considered as the most significant physical properties of abrasive materials [2]. Sandpaper is an abrasive grain material that is used to make the surface of work-piece smoother or rougher if rubbed with the surface of the work-piece. Small amounts of the work-piece surface materials are removed in the process. This is useful in removing unwanted layer or coating, such as dirt, paint and stain, on surface of a material [3-4] to attain precision and good surface appearance. Sandpaper consists of abrasive grain material fixed to a flexible backing material by an adhesive [5].

In Nigeria, available synthetic materials abrasive materials are either very scarce or very expensive; this is mainly due to non-availability or high cost of the materials (such as silicon carbide, aluminium oxide and aluminium silicate) used in their production [6]. Meanwhile, the available natural materials, like lime, chalk and silica, aluminium silicate, kaolinite, diamond and diatomite are found to be less effective due to impurity nature of the materials [7-8]. In developing countries like Nigeria, bio-wastes (such as shells from crabs, periwinkles, snails, etc) which are from biological organisms are dumped indiscriminately and as such results to environmental nuisance. Thus, the need to convert these bio-wastes into industrial tools like sandpaper are essential for economic development and sustainability, which will assist in addressing the most needed economic diversification in Nigeria to quench the effect of COVID-19 on the nation's economy.

Periwinkles are marine molluscs (gastropods) with thick spiral shells. The Periwinkle shells are the outer casing of the sea snails which are hard with swollen rough surfaces and usually regarded as waste after consuming the inner fleshy part of the snail. As they grow, gastropod shells follow a mathematically ordered pattern. Thus, as they increase in size, they retain their basic form. It is the presence of the high level of concentration of calcium carbonate (CaCO_3) that makes the shell hard. In an experiment on the chemical content of the periwinkle shell and its suitability in thin layer cinematography carried out by Orji et al. [9], the shells were found to contain very high percentage of CaCO_3 .

I. O. Ambali¹, Y. L. Shuaib-Babata¹, H. K. Ibrahim², L. B. Abdulqadir³, N. I. Aremu⁴, and T. O. Ibraheem¹

¹Department of Materials & Metallurgical Engineering, University of Ilorin, Ilorin, Nigeria

²Department of Mechanical Engineering, University of Ilorin, Ilorin, Nigeria

³Department of Mechanical Engineering, Kwara State Polytechnic, Ilorin, Nigeria

E-mail: nyibabata@unilorin.edu.ng

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Table of Contents Development Abrasive Sandpaper Using Periwinkle

1. Understanding the eBook Development Abrasive Sandpaper Using Periwinkle
 - The Rise of Digital Reading Development Abrasive Sandpaper Using Periwinkle
 - Advantages of eBooks Over Traditional Books
2. Identifying Development Abrasive Sandpaper Using Periwinkle
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Development Abrasive Sandpaper Using Periwinkle
 - User-Friendly Interface
4. Exploring eBook Recommendations from Development Abrasive Sandpaper Using Periwinkle
 - Personalized Recommendations
 - Development Abrasive Sandpaper Using Periwinkle User Reviews and Ratings
 - Development Abrasive Sandpaper Using Periwinkle and Bestseller Lists
5. Accessing Development Abrasive Sandpaper Using Periwinkle Free and Paid eBooks
 - Development Abrasive Sandpaper Using Periwinkle Public Domain eBooks
 - Development Abrasive Sandpaper Using Periwinkle eBook Subscription Services
 - Development Abrasive Sandpaper Using Periwinkle Budget-Friendly Options

6. Navigating Development Abrasive Sandpaper Using Periwinkle eBook Formats
 - ePub, PDF, MOBI, and More
 - Development Abrasive Sandpaper Using Periwinkle Compatibility with Devices
 - Development Abrasive Sandpaper Using Periwinkle Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Development Abrasive Sandpaper Using Periwinkle
 - Highlighting and Note-Taking Development Abrasive Sandpaper Using Periwinkle
 - Interactive Elements Development Abrasive Sandpaper Using Periwinkle
8. Staying Engaged with Development Abrasive Sandpaper Using Periwinkle
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Development Abrasive Sandpaper Using Periwinkle
9. Balancing eBooks and Physical Books Development Abrasive Sandpaper Using Periwinkle
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Development Abrasive Sandpaper Using Periwinkle
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Development Abrasive Sandpaper Using Periwinkle
 - Setting Reading Goals Development Abrasive Sandpaper Using Periwinkle
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Development Abrasive Sandpaper Using Periwinkle
 - Fact-Checking eBook Content of Development Abrasive Sandpaper Using Periwinkle
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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