

# Introduction To Composite Materials

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### Introduction To Composite Materials

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## **An Introduction To Composite Materials Hull**

Composites are made from two or more distinct materials that when combined are better (stronger, tougher, and/or more durable) than each would be separately. The word usually refers to the fiber-reinforced metal, polymer, and ceramic materials that were originally developed for aerospace use in the 1950s.

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Composite is considered to be any multiphase materials that exhibits a significant proportion of the properties of both constituent phases such that a better combination of properties is realized.

Chapter 16 - 3

## **Chapter 16: Composite Materials**

One of the definitions for a composite material, made of two constituents, one is fiber (the reinforcement) and the other is glue (the matrix), states that a combination of the two materials would result in properties better than those of the individual components when they are used alone.

## **Introduction to composite materials - ScienceDirect**

What is a Composite? A composite material is composed of at least two materials, which combine to give properties superior to those of the individual constituents. For our website we refer to fibre reinforced polymer (FRP) composites, usually with carbon, glass, aramid, polymer or natural fibres embedded in a polymer matrix.

## **Introduction | Composites UK**

Composites exist in nature. A piece of wood is a composite, with long cellulose fibres held together by a substance called lignin. Composite materials are formed by combining two or more materials that have quite different properties, and they do not dissolve or blend into each other.

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Composite materials are materials made from two or more constituent materials with significantly different physical or chemical properties that when combined, produce a material with characteristics different from the individual components.

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A composite material (also called a composition material or shortened to composite, which is the common name) is a material made from two or more constituent materials with significantly different physical or chemical properties that, when combined, produce a material with characteristics different from the individual components.

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