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applied loading without breaking and without exhibiting excessive deflection. The major classifications of engineering materials include metals, polymers, ceramics, and composites.



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Typical properties of  
engineering materials like  
steel, plastics, ceramics  
and composites

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Ceramics are non-metallic solids made up of inorganic compounds like nitrides,

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oxides, and carbides. It possesses electrical, magnetic, chemical and thermal properties. These materials are used in electronic controlled devices, computers, and aerospace field.

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*Engineering materials -  
Classification, properties  
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Ceramic materials possess  
exceptional Structural,  
Electrical, Magnetic,  
Chemical and Thermal

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properties. These ceramic materials are now extensively used in different engineering fields. Examples: Silica, glass, cement, concrete, garnet, MgO, CdS, ZnO, SiC etc. Organic Materials. All

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organic materials are having carbon as a common element. In organic materials carbon is chemically combined with oxygen, hydrogen and other non-metallic substances.

*Classification of*

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new materials, particularly solids. The intellectual origins of materials science stem from the Enlightenment, when researchers began to use analytical thinking from chemistry, physics, and engineering to understand



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and mineralogy .

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Construction groups.

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Materials science or materials engineering is an interdisciplinary field involving the properties of material (matter) and its

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applications to various areas of science and engineering.

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Materials engineering is involved with the properties

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of matter and the application of those processes to science and engineering. During its early years, materials engineering was concerned with metal alloys, ceramics, polymers and exotic

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materials. In recent years, materials engineering has been involved with nanoscience and nanotechnology.

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Engineering materials are metals and plastics. Wood is used to make patterns and models.

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