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engineering materials refers to the group of materials that are used in the construction of manmade structures and components the primary function of an engineering material is to withstand applied loading without breaking and without exhibiting excessive deflection

engineering materials classification properties and

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we can classify all engineering materials into two broad categories of metals and non metals these two categories further classify as follows metals and alloys ferrous cast iron grey cast iron white cast iron alloy cast iron malleable cast iron nodular cast iron steel alloy steel stainless steel mild steel carbon steels

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the main function of engineering materials is to withstand the applied load without failure breaking and excessive deflection carbon steel aluminum cast iron stainless steel copper alloys plastics composites nickel alloys dss etc are examples of engineering materials

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material properties properties of gases fluids and solids densities specific heats viscosities and more mechanics the relationships between forces acceleration displacement vectors motion momentum energy of objects and more statics

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it is always new materials that open the door to new technologies whether they are in civil chemical construction nuclear aeronautical agricultural mechanical biomedical or electrical engineering materials scientists and engineers continue to be at the forefront of all of these and many other areas of science too

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engineering materials in principle can be divided into four main classes 1 metals 2 carbon based polymeric materials 3 ceramics and glasses 4 composites materials in each classes exhibit comparable properties processing routes and most often applications as well

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engineering materials are used to provide the mechanical strength and stiffness there are different classes of engineering materials which include composites ceramics polymers and metals these materials have an intrinsic property to oppose the damage due to the presence of the microstructures inside the materials

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makeitfrom com is a curated database of engineering material properties that emphasizes ease of comparison it is not a datasheet dump every listed material is an internationally recognized generic material the data is sourced from published standards academic literature and supplier documentation to find information on a particular

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engineering material are the materials used for the application of engineering works based on the mechanical physical chemical and manufacturing properties materials are selected according to the application

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ceramic using these basic three types of materials we can make composite materials anyhow in the modern world there are various types of materials engineering materials types of metals as engineering material metals are very common engineering materials metal alloys are more popular in various industries

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