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steel alloy of iron and carbon in which the carbon content ranges up to 2 percent with a higher carbon content the material is defined as cast iron by far the most widely used material for building the world s infrastructure and industries it is used to fabricate everything from sewing needles to oil tankers when iron is combined with carbon recycled steel and small amounts of other elements it becomes steel steel is an alloy of iron and carbon containing less than 2 carbon and 1 manganese and small amounts of silicon phosphorus sulphur and oxygen steel is the world s most important engineering and construction material it is used in every aspect of our lives in metals depot is the america s largest small quantity supplier of hot rolled structural steel stocking

thousands of shapes sizes lengths and grades including steel angles steel channels steel beams steel flats steel squares steel rounds steel tubes steel pipe steel sheet steel plate steel diamond plate steel expanded steel perforated sheet steel grip steel technology steel production steel flowlines how steel is made steel is primarily produced using one of two methods blast furnace or electric arc furnace the blast furnace is the first step in producing steel from iron oxides the first blast furnaces appeared in the 14th century and produced one ton per day 1 day ago currently some 75 of global steel production uses a traditional method that burns through trainloads of coal to heat the furnaces and drive the reaction that releases pure iron from ore in essentially there are four main types of steel and two finishes you will find on this page the four types can be remembered with the acronym cast use the easy navigation links below carbon steel alloy steel stainless steel tool steel the two finishes are hot rolled and cold rolled carbon steel carbon steel makes up our other main category as the name implies it is an instrument or implement of or characteristically of steel such as a a thrusting or cutting weapon b an instrument such as a fluted round rod with a handle for sharpening knives c a piece of steel for striking sparks from flint 3 a quality such as hardness of mind or spirit that suggests steel nerves of steel 4 a 2 days ago steel is one of the world s dirtiest heavy industries three quarters of world production uses a traditional method that burns through

train loads of coal to heat the furnaces and drive the reaction that releases pure iron from ore 2 days ago the steel industry brings in revenue of about 1 6 trillion a year and represents between 7 and 9 global carbon dioxide emissions according to the world steel association on friday the clean steel is an alloy of iron and carbon with improved strength and fracture resistance compared to other forms of iron many other elements may be present or added stainless steels that are corrosion and oxidation resistant typically need an additional 11 chromium

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