

# Research

Iron is the most common material. Iron rusts because oxygen and water convert it into iron oxide. (Iron (Fe) - Melting Point, Atomic Mass & Number, Chemical and Physical Properties with Accessed 16 Oct. 2023.) But Iron can't rust without water ("Why Can't Rust Form without Water?" *Chemistry Stack Exchange*, 6 Mar. 2015, ), the sugar in fruit has much more nutrients than the refined sugar ("Fruit Sugar vs. Refined Sugar: What's the Difference?" *Lifestyle Medicine Clinic*, 28 Apr. 2021, ) .

Salt solution and electrolytes can make iron rust faster but sugar solution rusts iron slower because it is non-conductive. (Ask an Expert: Nail Rusting. Accessed 24 Oct. 2023. and What Effect Does Salt Have on the Corrosion of Iron?(A) Absolutely None(B) Speeds up the Reaction(C) Stops Rusts in Its Track(D) Gives off a Different Type of Rust. Accessed 24 Oct. 2023.) .