Cheatography

Metals and Their Uses Cheat Sheet by Elf (Elf Fatmawati) via cheatography.com/213487/cs/46518/

Properties of Alloys and Their Uses		Properties and Uses of Metals		
Alloys -> Mixture of two or more metals	Increased Strength: Alloys are usually stronger than pure metals, making them suitable for construction and manufactu- ring.	Conductors of heat and electricity (copper, electrical wiring)		Malleable and Ductile (aluminum, airplanes and cans)
		High melting points and are solid temperature, except mercury (iror		Shiny (gold and silvers) jewelry and electronics
Improved Resistance to Corrosion: Many alloys, like	Enhanced Hardness: Alloys are often harder than the metals they are made from, which helps in making cutting tools and machinery.	cooking pans) Strong and Durable (iron and steel, buildings and machines)		
stainless steel, resist rust and corrosion better than the base metal.		Corrosion and Rusting		
Tailored Magnetic or Lightweight Properties: Certain alloys are used for their magnetic properties (like alnico) or light weight (like	Better Heat and Electrical Properties: Some alloys are designed to have specific heat or electrical conductivity, like	Rusting -> chemical reaction where iron reacts with oxygen and water to form a reddish-brown substance called rust. Occurs because of oxidation. Prevent -> Painting/coating, Galvanization, Stainless steel, Powder coating		Corrosion -> Formation of compounds of metals due to oxidation reaction.
aluminum alloys in aircraft). Metal + Water Metal + Water -> Metal Hydroxide	nichrome for heating elements. Mg(s) + 2H2O(I) -> Mg(OH)2			Factors Influencing -> High temperature, acidic PH, oxygen, high flow velocity
+ Hydrogen *Auqueous: Chemical substance th water	(aq*) + H2 (g) at is in the form of a solution in	Aluminum & Titanium -> Form an not weaken the iron structure)	oxide laye	er to be stronger (Does
Metal + Oxygen		Metal + Acids		
Metal + Oxygen -> Metal Oxide	2Mg(s) + O2 (g) -> 2MgO(S)	Metal + Acid -> Salt + Hydrogen gas	Zn(s) + 2 H2(g)	HCI(aq) -> ZnCl2(aq) +
		Hydrochloric Acid	Chloride	
		Sulfuric Acid	Sulfate	
		Nitric Acid	Nitrate	
		To obtain salt:		
		 React metal with acid Filter out excess metal Heat the solution to evaporate water 		
		4. Crystals of salt remain		
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