

Q 4. The smelting process is carried at about  $1400^{\circ}\text{C}$ . During smelting process: View Solution. Q 5. When copper pyrite is roasted in excess of air, a mixture of  $\text{Cu}_2\text{S}$  and  $\text{FeO}$  are formed.  $\text{FeO}$  is present as impurity. This can be removed as slag during Smelting. The flux added to form slag is.

Click here:point\_up\_2:to get an answer to your question :writing\_hand:the function of flux during the smelting of ore is Flux: The substance which is added to remove the gangue from the concentrated ore in its molten state is called flux and the substance formed with flux is called Slag.

Reduction is the final high-temperature step in smelting. In this, the oxide becomes the elemental metal. Smelting uses heat and a chemical reducing agent to change the oxidation state of the metal ore. The reducing agent is commonly a source of carbon such as coke. So, we use  $\text{CO}$  as a reducing agent in smelting process.

Smelting, a method by which a metal we separate from its material, either as a component or as a pure mixture. Moreover, by heating beyond the melting point, typically in the presence of oxidizing agents such as water or reducing agents such as coke. Copper (around 5000 BCE) was possibly the first element that they find in the ancient Middle East.

S1: In the aluminothermite process, aluminium acts as reducing agent. S2: The process of extraction of gold involves the formation of  $[\text{Au}(\text{CN})_2]^-$  and  $[\text{Zn}(\text{CN})_4]^{2-}$ . S3: In the extractive metallurgy of zinc, partial fusion of  $\text{ZnO}$  with coke is called smelting and reduction of ore to the molten metal is called smelting. View Solution.

Smelting. Solution. Verified by Toppr. Smelting is a form of extracting metallurgy to produce a metal from its ore . Smelting uses heat and a chemical reducing agent to decompose the ore driving off other elements as gasses or slag and leaving just the metal behind. The reducing agent is commonly a Source of Carbon such as coal,coke and charcoal.

Click here:point\_up\_2:to get an answer to your question :writing\_hand:write short note onsmelting Smelting is the process of extracting metal by heating metal oxide with suitable reducing agent such as carbon, hydrogen etc. Smelting is done at high temperature.

(a) In smelting process carried out in blast furnace for the exgtraction of iron, lower region of the furnace has the highest temperature. (b) Formation of  $\text{CO}$  from  $\text{CO}_2$  and coke reduces the temperature of the middle region of blase furnace. (c) Limestone is taken

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## Smelting

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