CaD®

Short process time for low sulfur contents

CaD is a powerful agent for hot metal desulfurization based on finely ground Calcium Carbide (CaC_2) powder.

In the production of high quality steel, sulfur levels have to be as low as possible. Due to the use of coke in the blast furnace, sulfur is added to the process and has to be removed from the hot metal prior to the steel making process in the basic oxygen furnace.

Tailored desulfurization mixtures

Alzchem produces various CaD-mixtures for hot metal desulfurization based on fine Calcium Carbide (CaC_2) powder.

Depending upon the customer's demand, different agents such as volatiles or slag modifiers are added to optimize the performance.

Application

CaD is injected into the liquid hot metal through a lance and reacts with the sulfur (S) by forming calcium sulfide (CaS).

Thereby the sulfur is bound in the slag, which is then removed from the metal bath.

$$CaC_2 + S \leftrightarrow CaS + 2\,C$$

Your Benefits

- Short process time for low sulfur contents
- Special blends for reduced iron losses
- Tailored products for high efficiency

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