



Calcium Carbide

Quick and strong: The multi talent in secondary metallurgy



Calcium Carbide is appreciated as a notably strong reducing agent and used for the following applications in secondary metallurgy:

- Desulfurization
- Deoxidation
- Slag treatment

Calcium Carbide (CaC_2) has the highest affinity to oxygen and sulfur, therefore fast and efficient deoxidation as well as desulfurization are achieved.

A major application is to add the product on top of the liquid steel bath at the ladle treatment station. Basic slag and reducing conditions are thereby adjusted quickly. This leads to highest sulfur uptake in the slag and the release of metal oxides from the slag.

When the product is added during converter tapping and CaC_2 is poured over by liquid steel, the oxygen content drops effectively before the ladle treatment.

Application

- Steel treatment: For deoxidation or desulfurization Calcium Carbide is added during tapping to the liquid steel. Injection of fine powder is done for ultra-low sulfur contents.
- Slag treatment: Addition at the ladle treatment onto the steel bath enables quickest slag treatment.

Your Benefits

- Reduced costs and improved metal cleanliness
- Less consumption of synthetic slag and other slag builders
- Recovery of oxidized metals like Cr, Mn, Si, Fe
- Fast reduction of aggressive furnace slag results in increased refractory life



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