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Resource Savings Combined with Wear Resistance

In the world of metal manufacturing, finding sustainable solutions that reduce energy consumption and environmental impact is essential. Every step of the metal production process presents an opportunity to enhance efficiency and minimize waste. As part of its Mission NeutrAL, Almatris, a global leader in specialty alumina materials, has unveiled a game-changing solution with ECO-TAB®—a lower-density alumina refractory aggregate designed for wear linings. ECO-TAB® not only improves energy efficiency and capacity but also contributes to a greener, more sustainable future remarkably.



Reducing Energy Consumption

ECO-TAB® is engineered to excel in wear linings, a critical component of the metal manufacturing process. The lower-density alumina refractory aggregate provides a unique advantage by reducing the thermal conductivity of the steel ladle working lining. This innovative design is tailored to offer superior thermal properties, enabling the lining to maintain temperature more effectively. As a result, less energy is lost from the metal and required to keep it at the desired temperature throughout the manufacturing process.

Capacity Improvement

One of the notable benefits of ECO-TAB® is its capacity-enhancing properties. The reduced weight of the steel ladle lining translates to higher steel capacity of the ladle when the maximum crane weight becomes the limit. This, in turn, increases the overall efficiency of metal manufacturing operations. By optimizing capacity, ECO-TAB® helps manufacturers meet production targets while keeping energy consumption to a minimum.

Minimizing Material Consumption

Reducing material consumption is another significant advantage of ECO-TAB®. Its lower-density composition means less aggregate is needed to create effective wear linings. This efficiency translates to a reduction in raw material usage, saving



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resources and minimizing waste. Almatris is committed to a circular economy, and ECO-TAB® is a demonstration of their dedication to sustainable manufacturing practices.

Reducing the CO₂ Footprint

The ultimate result of using ECO-TAB® in metal manufacturing is a remarkable reduction in the carbon footprint. By cutting energy consumption and material usage together with improved production efficiencies, this innovative solution contributes to a more environmentally responsible production process. ECO-TAB® is a tangible step towards the industry's global efforts to reduce its environmental impact and achieve more sustainable operations.

Almatris' ECO-TAB® refractory aggregate is a pioneering solution for metal manufacturers aiming to improve their energy efficiency, capacity, and sustainability. By utilizing this lower-density aggregate in wear linings, manufacturers can reduce their carbon footprint, optimize resource usage, and improve the overall efficiency of their operations. ECO-TAB® shows Almatris' commitment to innovative and sustainable solutions in the world of metal manufacturing. As the industry continues to evolve, ECO-TAB® stands as an example of how small changes can lead to significant improvements for both business and the environment.