

# ALKEGEN

**Product Solutions:** Thermblock Ladle Lip Rings  
**Industry:** Steel  
**Location:** North America  
**Applications:** Precast Refractory Ladle Lip Rings for Steel Ladles

## SOLUTION

Thermbond's custom solution for ladle lip rings provides superior resistance to thermal shock and abrasion, crucial for steelmaking applications.

Thermblock Ladle Lip Rings are pre-engineered, pre-cast shapes made from Thermbond Thermblock products, designed to extend the service life of ladle lip rings, and reduce maintenance costs. The pre-cast shape reinforced with stainless steel fibers, deliver optimal performance in demanding conditions.

Installed Thermblock Ladle Lip Rings withstand extreme temperatures and maintain integrity through multiple heats, greatly surpassing traditional materials. This extends maintenance intervals, reducing downtime and labor costs

Switching to Thermblock Ladle Lip Rings led to a significant increase in service life and fewer production interruptions, lowering overall operating costs and improving efficiency.

Steel manufacturers face durability issues with traditional refractories, necessitating a more durable solution to minimize maintenance and enhance operational efficiency.



Thermblock Ladle Lip Ring provides superior durability and thermal resistance, extending service life and reducing maintenance for steel manufacturers.

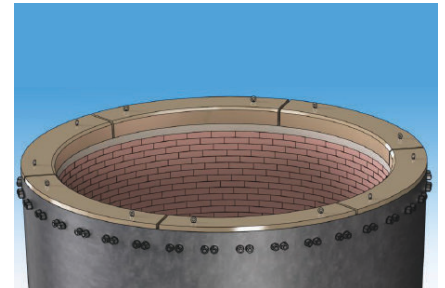
## BUSINESS CHALLENGE

Steel manufacturers face recurring challenges with the durability of their ladle lip rings. Frequent maintenance and replacements lead to excessive downtime, negatively impacting overall productivity. Traditional refractory solutions often fall short in high-intensity steelmaking operations, where prolonged heat exposure and thermal cycling rapidly degrade ladle lip rings. Manufacturers need a refractory solution that can withstand the harsh conditions of steel production, extend the service life of ladle lip rings, and minimize costly maintenance downtime, all while improving operational efficiency and reducing overall repair costs.



## APPLICATION

Thermblock Ladle Lip Rings are ideally suited for steelmaking applications requiring exceptional resistance to thermal shock and abrasion. By leveraging Thermbond's pre-engineered, pre-cast shapes made from Thermblock products and reinforced with stainless steel fibers, these ladle lip rings significantly extend service life and minimize maintenance costs. Designed to withstand extreme temperatures and maintain integrity through multiple heats, Thermblock Ladle Lip Rings outperform traditional materials, resulting in longer maintenance intervals, reduced downtime, and lower labor costs. This solution addresses the common durability issues faced by steel manufacturers, enhancing operational efficiency, and reducing overall repair expenses.



## CUSTOMER ADVANTAGES

- Extended Lifespan
- Enhanced Strength
- Improved compression of safety and working lining
- Faster Installation
- Efficient Setup
- Reduced Labor

## ABOUT ALKEGEN

Alkegen is a global leader in high performance specialty products used by many industries in a diverse group of industrial applications. Our products provide substantial improvement in thermal performance, save thousands of dollars in energy costs and can help reduce your CO<sub>2</sub> emissions and Carbon footprint.

## Contact Us

To learn more about Alkegen Thermal Management Solutions, contact your Alkegen sales representative or the Alkegen Application Engineering Group in your region:

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