

PALLAM METALS

OXIDEX

A product within the Absheronlu industrial innovation platform

Cleaner steelmaking. Smarter refining.

A high-density deoxidizer-modifier designed for large-scale steel producers.

OXIDEX is designed as a practical alternative to aluminium in selected steelmaking applications, supporting improved inclusion control, reduced Al_2O_3 -related waste and more stable metallurgical performance.

INDUSTRIAL INNOVATION | STEEL REFINING



The challenge in modern steel refining

Steel producers are under pressure to deliver cleaner steel, stable operations and lower waste, while maintaining throughput, consistency and commercial discipline.



Inclusion control

Non-metallic inclusions can influence steel quality, process consistency and downstream performance.



Al_2O_3 -related burden

Aluminum-based refining routes can contribute to alumina-related residues, deposits and cleaning effort in certain applications.



Operational stability

Plants need practical solutions that fit existing refining practice without unnecessary disruption.

The opportunity is to improve refining performance while supporting cleaner and more efficient steelmaking.



What OXIDEX is

A practical product concept for steel refining.

OXIDEX is a high-density deoxidizer-modifier developed for large-scale steel producers. It is designed as a practical alternative to aluminium in selected applications, with a focus on cleaner refining, process stability and operational fit.



High density

Developed for industrial-scale handling and use.



Practical fit

Designed to integrate into relevant refining workflows with limited disruption.



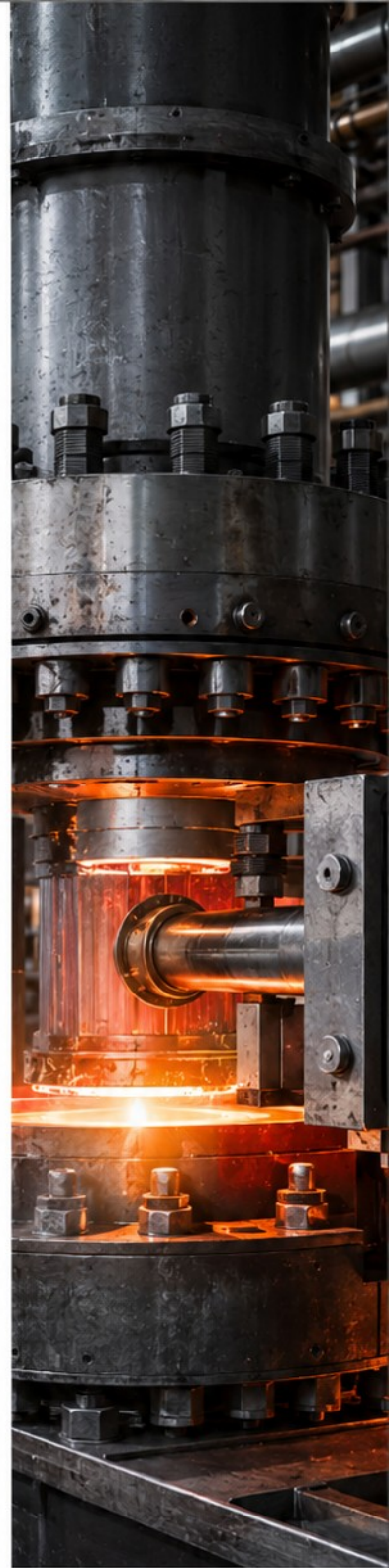
Application focus

Intended for selected steelmaking applications where a practical aluminium alternative is desired.



Industrial mindset

Built around validation, performance data and plant-specific implementation.



Assess



Trial



Validate



Implement

Why producers explore OXIDEX

The value proposition centers on cleaner refining, more stable metallurgy and a practical route to plant-level validation.



Cleaner inclusion landscape

Support improved inclusion control and cleaner steelmaking practice.



Lower Al₂O₃-related burden

Reduce reliance on aluminium-driven oxide burden in relevant applications.



More stable metallurgy

Aim for steadier refining behaviour and better process consistency.



Sustainability alignment

Support efficiency and environmental ambitions through smarter material use.



Benefits should be validated plant by plant, grade by grade.

Pilot and validation pathway

OXIDEX is intended to be assessed pragmatically, with technical and commercial alignment at each stage.

01

SCOPING

Define target grades, current practice, operational constraints and success criteria.



02

REVIEW

Assess chemistry, route fit, material handling, data availability and the commercial case.



03

TRIAL

Run a controlled pilot under agreed conditions and capture the required performance data.



04

IMPLEMENTATION

Scale up only after validation, documentation and plant-level alignment.

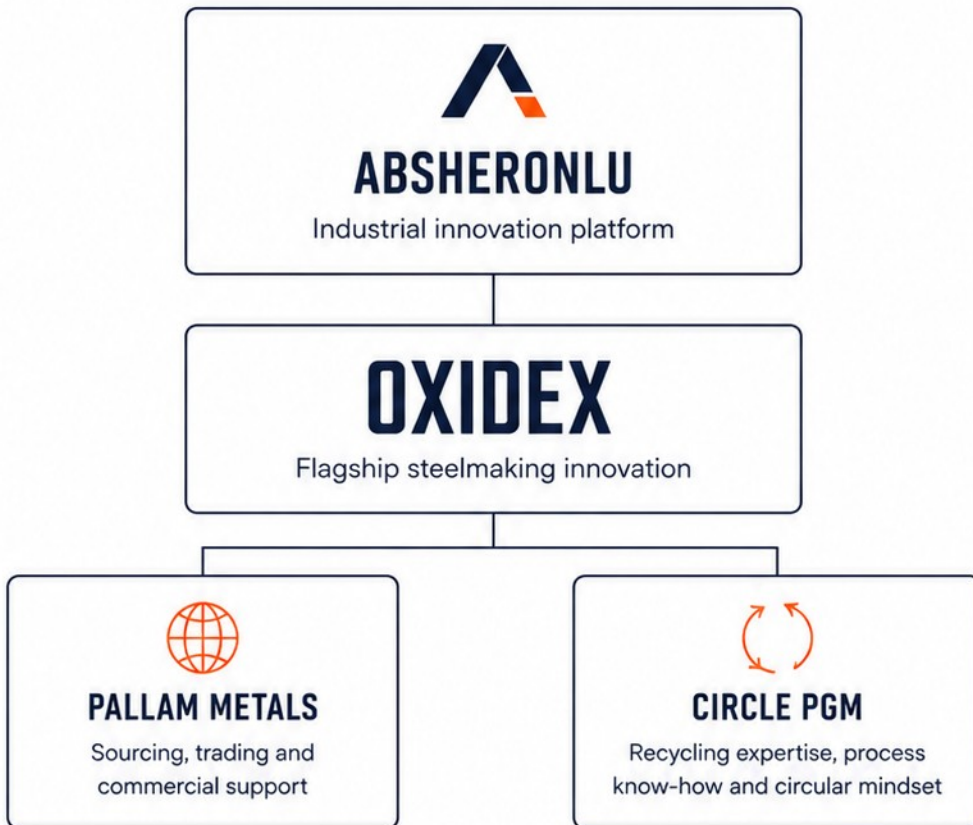


Every plant is different. Trial design and expected benefits should be tailored to the specific route and objectives.



Part of a broader innovation ecosystem

OXIDEX is a product. Absheronlu is the overarching industrial innovation platform under which OXIDEX is developed and positioned.



This structure combines product innovation with materials expertise, commercial access and circular know-how.

Let's explore a pilot.

We welcome conversations with steel producers, technical teams and strategic partners who want to explore a practical validation route for OXIDEX.



TYPICAL DISCUSSION TOPICS

- Pilot opportunities
- Technical fit assessment
- Validation pathway
- Commercial collaboration

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Cleaner steelmaking starts with a practical conversation.