



# Company Profile



# About Us

Committed to Sustainable Economic Growth

SPR Vanchem is a proudly South African vanadium processing facility, one of the world's largest primary vanadium processors. As one of only four operating primary vanadium production plants globally, SPR Vanchem plays a critical role in the global vanadium supply chain.

Located in Mpumalanga, South Africa, Vanchem is a flexible and scalable processing facility that specialises in the crushing, screening, milling, concentration, extraction, precipitation, and refining of vanadium-bearing ores. The plant processes feedstock from various sources.

Vanchem produces a wide range of high-purity vanadium products, including:

- Vanadium Pentoxide ( $V_2O_5$ ) – in both powder and flake form, used in the chemical and aerospace sectors
- Vanadium Trioxide ( $V_2O_3$ ) – for use in chemical manufacturing
- Ferrovandium (FeV) – primarily for strengthening steel
- Electrolytes – critical for vanadium redox flow batteries in the renewable energy storage market
- Other chemical-grade vanadium derivatives

Through its advanced processing capabilities and integration within the Bushveld Minerals platform, SPR Vanchem supports a wide range of industries including steel, chemicals, aerospace, and energy storage, playing a strategic role in the global energy transition and materials innovation landscape.



# Service Offering



## ORE SUPPLY & PROCESSING

SPR Vanchem secures ore through a blend of in-house sources and strategic third-party supply agreements. We prioritise feedstock with low silica content to ensure optimal metallurgical recovery.

Our proprietary salt-roast process enables the efficient, scalable production of premium vanadium products.

Our vanadium products are integral to various critical sectors, including:

- Steel Manufacturing – For high-strength, low-alloy (HSLA) steels.
- Energy Storage – As electrolytes in vanadium redox flow batteries (VRFBs).
- Aerospace Engineering – In high-temperature, lightweight titanium alloys.
- Chemical Processing & Pigments – As catalysts and coloring agents.
- Construction & Infrastructure – Enhancing structural materials for durability and performance.

At SPR Vanchem, sustainability is at the heart of our business. We are committed to operating responsibly, minimising our environmental impact, and contributing positively to the communities in which we operate.

Guided by our core values — Care, Collaboration, Courage, Excellence, and Trust — we strive to build a business that not only powers the present but also helps shape a resilient and sustainable future.

Backed by a skilled workforce and a culture of innovation, SPR Vanchem continues to invest in operational efficiency, environmental stewardship, and long-term value creation. Everything we do is driven by a shared purpose: to empower people and inspire the world to be innovative.



# WHAT DRIVES US

## OUR VISION

To lead in advanced vanadium solutions that power progress, sustainability, and resilience in modern infrastructure.

## OUR MISSION

We are committed to creating value safely and sustainably for all our stakeholders across the commodity cycle. We continuously strive to expand our footprint and become one of the world's leading vertically integrated mineral resource platforms.

# OUR VALUES



### INTEGRITY:

We act transparently and ethically in every decision, building trust across our entire value chain.



### EXCELLENCE:

We pursue operational excellence through high performance, safety, and strategic execution.



### RESPONSIBILITY:

We are accountable stewards of our environment, people, and communities.



### INNOVATION:

We embrace continuous improvement and technologies that drive efficiency and enable cleaner, smarter production.



### COLLABORATION:

We foster partnerships that deliver shared value and long-term success.

# OUR LEADERSHIP

The SPR Vanchem leadership team is a dynamic group of professionals committed to driving innovation, operational excellence, and team empowerment. With a focus on strategic leadership and collaboration, the team plays a vital role in shaping the direction and success of SPR Vanchem. Their combined expertise and forward-thinking approach continue to inspire progress and deliver results across all levels of the organisation.



**Reyna Singh**  
Chief Executive Officer



**Sizwe Mokoena**  
*General Manager –  
Operations*



**Mdumiseni Mvelase**  
*Production / Operations  
Manager*



**Albert Lebepe**  
*Human Resources  
Manager*



**Mauritz Loubser**  
*Unit Manager- Security*



# Powering Progress Through Vanadium Innovation

SPR Vanchem as vanadium processing company is a vital contributor to the global vanadium supply chain. With 275 employees and a vertically integrated operation based in Emalahleni, Mpumalanga, SPR Vanchem spans the full vanadium value chain — from ore sourcing to the production of high-quality vanadium pentoxide ( $V_2O_5$ ), ferrovanadium (FeV), and vanadium-based chemicals. These products serve critical industries including steel manufacturing, aerospace, clean energy, and construction, both locally and globally.

We are deeply committed to South Africa's socio-economic development. Through local employment, targeted skills development, and enterprise support initiatives, SPR Vanchem empowers individuals and communities. As demand for vanadium continues to grow — projected to reach USD 4.9 billion by 2032 — we are positioning our workforce and operations to meet this demand while ensuring inclusive growth and economic participation in the regions we serve.

Sustainability, safety, and innovation are core to our operational culture. We follow a zero-harm philosophy and are aligning our systems with ISO standards to drive continuous improvement across Safety, Health, Environment, and Quality (SHEQ). Our investment in low-carbon technologies, energy-efficient production, and circular economy practices positions us as a forward-thinking partner in South Africa's just energy transition. At SPR Vanchem, we are not only powering industry — we are uplifting people and shaping a more resilient future.

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