

Vateris SOP – Purity That Performs

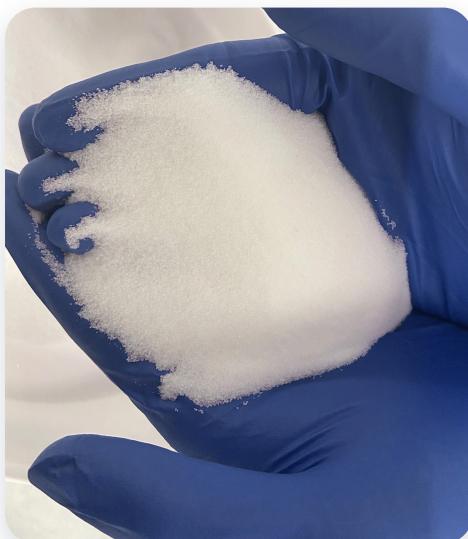
A New Route to High-Purity Sulphate of Potash

Innovative technology combining gypsum, captured CO₂ and potassium hydroxide to create premium SOP fertiliser and valuable co-products.

WE ARE RE-IMAGINING SOP PRODUCTION

Vateris is a UK technology company developing a new production platform for sulphate of potash (SOP). Our patented process combines gypsum, potassium hydroxide and captured carbon dioxide to produce two valuable products: high-purity SOP and GypCarb®, a specialist vaterite material for the construction sector.

- ▼ **Different Sulphate Source** – Uses gypsum or phosphogypsum rather than sulphuric acid or sodium sulphate.
- ▼ **Carbon Capture** – Industrial CO₂ waste streams become a feedstock.
- ▼ **No Chloride By-products** – The process avoids the chloride management challenges associated with conventional potassium chloride-based routes.
- ▼ **Ambient Temperature Chemistry** – Key process reactions occur under mild operating conditions without high-temperature sulphate exchange.
- ▼ **Two Valuable Products** – Every plant produces both premium SOP and GypCarb®.



Vateris Water Soluble SOP – Purity That Performs™

TYPICAL SPECIFICATIONS

52–53%
K₂O

45–46%
SO₃

<0.5%
Cl & Na

4.5–5.5
pH (1% solution)

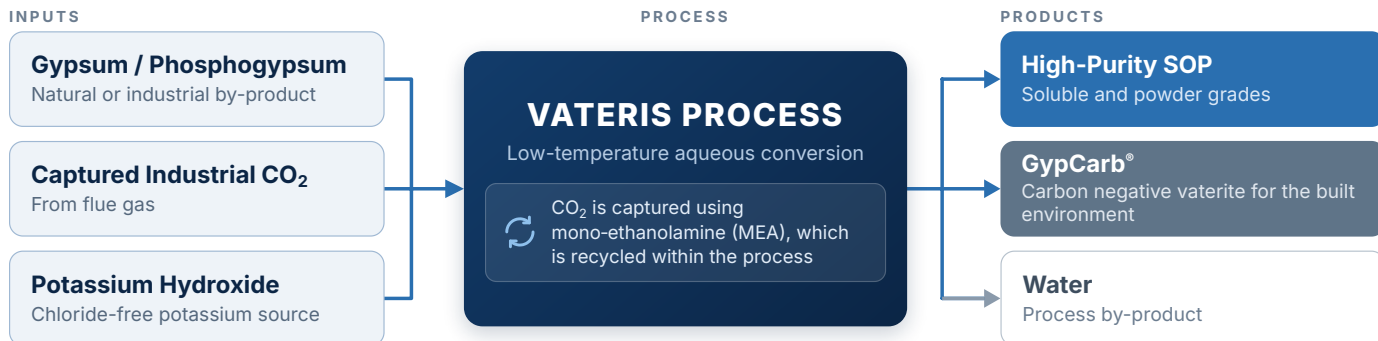
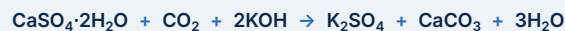
ADVANTAGES

- ✓ Rapid and complete dissolution.
- ✓ Ideal for demanding fertigation applications.
- ✓ Meets stringent quality requirements for modern NPK manufacture.
- ✓ Free from potassium bisulphate.

THE SOP INDUSTRY NEEDS MORE THAN ONE ROUTE TO MARKET

SOP demand is growing globally, while producers face increasing pressure related to energy, carbon emissions, feedstock security and sustainability. Vateris is not seeking to replace existing technologies. We aim to add a new, complementary production route that strengthens future supply, broadening the industry's technology portfolio.

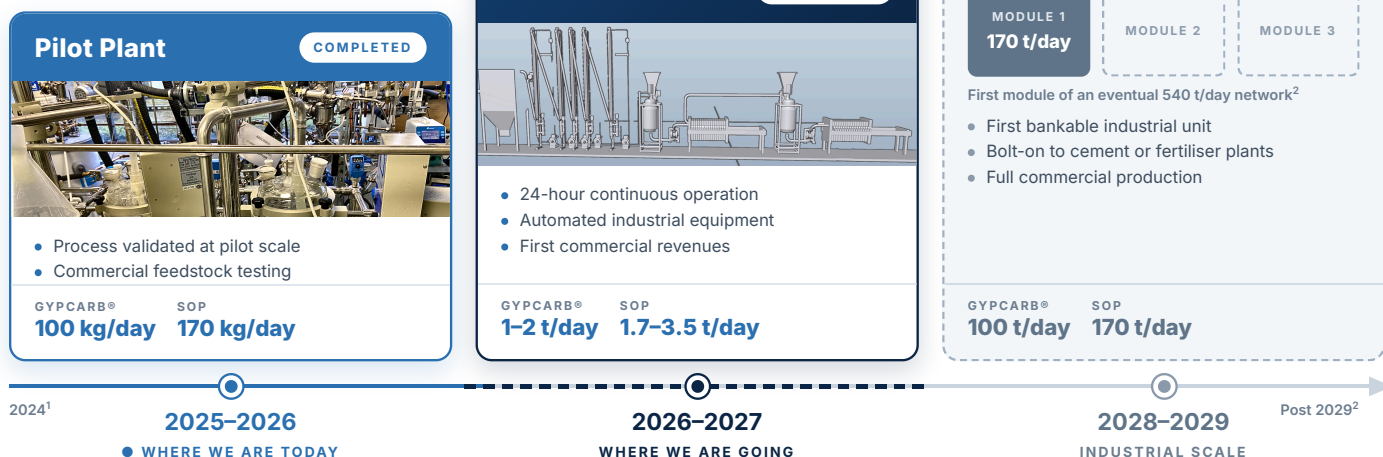
THE VATERIS PROCESS FOR SOP



- ▼ **Circular Economy** – Creates value from phosphogypsum resources while helping address a major fertiliser industry by-product challenge.
- ▼ **Flexible Deployment** – A modular process capable of being developed close to suitable feedstocks, industrial CO₂ sources and regional SOP demand.
- ▼ **Permanent Carbon Sequestration** – Approximately 250 kg of industrial CO₂ is incorporated into the process for every tonne of SOP produced.
- ▼ **Supply Security** – A new source of premium SOP independent of sulphuric acid markets and chloride by-product constraints.

PROJECT ROADMAP

Scaling the Vateris process from pilot plant to industrial production



¹ Technology validation in original batch plant completed in 2024

² Post 2029 target – full scale industrial operations utilising 3 or more plant modules

LET'S BUILD THE FUTURE OF SOP TOGETHER

- ▼ **Offtake Partners** – Secure future supply of high-purity SOP.
- ▼ **Strategic Partners** – Industrial co-location, feedstock integration and technology deployment.
- ▼ **Investors** – Support the next phase of commercial scale-up.
- ▼ **Technology Collaborators** – Explore opportunities around gypsum, phosphogypsum and industrial CO₂ utilisation.

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