



SASOL FACTS

Destoning at Sasol Mining

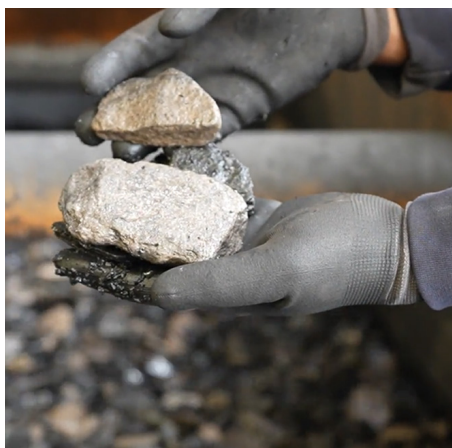
The performance of the Secunda value chain is highly dependent on coal quality and volumes. Since FY20, there has been a structural shift of increased sinks delivered to Secunda Operations.

What are sinks?

Sinks refers to non-coal material within the run-of-mine (ROM) material. This is typically inorganic rock. The level of sinks varies by source, with some mines having higher inherent levels of sinks within the coal reserve.

What is the impact of high sinks content?

- **Reduced gasifier capacity** to convert the carbon in the coal to syngas from which products are manufactured.
- **Increased energy intensity** to heat the sinks, resulting in lower process efficiency and higher greenhouse gas (GHG) emissions.
- **Increased maintenance** in the gasifier due to erosion, leading to longer turnaround times and a further impact on yield, throughput and cost.



How does destoning work?

Destoning reduces the sinks content in ROM coal by removing non-coal material through a Dense Medium Separation (DMS) process. This improves the overall quality of the coal blend supplied to Secunda Operations and improves gasifier performance.

The ROM coal from sources with high sinks content is screened prior to the destoning process. Sasol's destoning process will involve single-stage separation using gravity-fed cyclones. Centrifugal forces will separate the coal-rich material from the non-coal material, allowing the heavier sinks to be removed from the bottom of the cyclone, while the lighter coal-rich material is extracted from the top.



What is the destoning project?

The objective of Sasol's destoning project is to reduce the sinks content in the coal feed to Secunda Operations to an acceptable quality to deliver improved product yield and throughput.

The Twistdraai Export Plant, in operation as a DMS plant since 1997, will be repurposed as a destoning facility. The plant will have a capacity of approximately 10 million tons per annum (mtpa) and will cost approximately R1 billion to repurpose. The facility is expected to significantly contribute to the achievement of the Secunda Operations production volume target of more than 7,4 mtpa when it comes online in December 2025.

