

POSTER SUMMARY

SULPHITATION IN REFINERIES: AN ALTERNATE TO LIQUID SULPHUR DIOXIDE

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Abstract

Refineries using the sulphitation process for colour removal are primarily dependent on sulphur dioxide gas produced by sulphur burning, or the now more favoured liquid sulphur dioxide provided in one ton cylinders. Currently, five refineries in Southern Africa use liquid sulphur dioxide and are reliant on one supplier for this product. The safety aspects and guaranteed supply pose a high risk to these refineries.

An alternative product which would mitigate this risk was investigated and shown to provide a reliable substitute for liquid sulphur dioxide. Although this product is also sulphur based, it is produced as a solvent which can merely be metered into the process via a positive displacement pump or by gravity feed. The handling of toxic gas is eliminated and is a huge advantage to safety and handling.

The findings from Laboratory and plant trials are presented in this Poster.

Keywords: sulphitation, liquid sulphur dioxide