

13 26.982

**M**

**MODELISATION**

1 1.0079

**A**

**ACTIVATION**

16 32.065

**P**

**PRODUCTION**

16 32.065

**P**

**PROFITISATION**

5 10.811

**E**

**EDUCATION**

4 9.0122

**D**

**DETERMINATION**

**BLENDRITE MAPS<sup>®</sup> PROVIDE FUEL PRODUCTION OPTIMISATION**

# MAPPING BLENDING PROCESSES AND ADDITIVES TO OPTIMISE FUEL PRODUCTION

Blending and the constructive use of additives has become a standard model for fuel optimisation. The right blending processes and the right use of additives adapting the fuel rather than remedying subsequent problems is now viewed as the optimal methodology with which to develop the best end product.

However, not all of the existing fuel processing infrastructure has been designed or constructed with such methods in mind. Further to this, even when it has been, the environmental containment regulations either in or coming into force pose significant challenges to plant operators. Here at SGS Laroute we have devised a mapping solution, BLENDRITE MAPS®, which addresses a number of these challenges and with that offers our customers a simple and cost-effective way to optimise both their fuel production processes and the end product.

## ABOUT SGS LAROUTE BLENDRITE MAPS®

BLENDRITE MAPS® offer a series of tools, derived from empirical measurements that facilitate blend optimisation and avoidance of overdosing. Any tank with an adequate feed and sample point can be assessed.

To do this, the tank is mapped using a non-hazardous biomarker in place of the component or additive. As a result, a simple chart can be constructed which shows the true blend value from the detected quantity in the stilling well. This can then be used to inform appropriate and accurate blending and levels of additives.

## THE BENEFITS

Using Blendrite mapping overcomes many of the issues associated with attempts to get the blending and additives right while guiding organisations in meeting the necessary regulatory requirements. One of the problems with other methods, which Blendrite mapping offers a solution to, is achieving accurate sampling. This is because of the time lag between the addition of a blend component into a tank and when a representative sample can be obtained from a well sample point. The right amount of time must be allowed following the addition before the sample is taken. Blendrite mapping informs on exactly how much time should be allowed. Another issues that Blendrite mapping directly addresses is informing on when a representative sample can be taken in a layered tank system. In these situations, the single sample points are often restricted by a stilling well, adding a further complication. The Blendrite mapping technique ensures that a full understanding of the tanks operation can be achieved, issues can be overcome and ultimately the fuel produced is the best possible.

## WHY SGS?

SGS is the world's leading inspection, verification, testing and certification company. Recognised as the global benchmark for quality and integrity, we employ over 64 000 people and operate a network of more than 1 250 offices and laboratories around the world. We are constantly looking beyond customers' and society's expectations in order to deliver market leading services wherever they are needed.

We have a history of undertaking and successfully executing large-scale, complex international projects. With a presence in every single region around the globe, our people speak the language and understand the culture of the local market and operate globally in a consistent, reliable and effective manner.

We provide innovative services and solutions for every part of the oil, gas and chemicals industry. Our global network of offices and laboratories, alongside our dedicated team, allows us to respond to your needs, when and where they occur. Our reputation for independence, excellence and innovation has established us as the market leader in providing services that improve efficiency, reduce risk and deliver competitive advantage for you.

**TO LEARN HOW SGS CAN HELP  
YOU ACHIEVE FUEL OPTIMISATION  
CONTACT [OGC@SGS.COM](mailto:OGC@SGS.COM), OR  
VISIT [WWW.SGS.COM/OGC](http://WWW.SGS.COM/OGC)**