Desulphurisation - Individually Tailored to Your Biogas Plant

Sulphur compounds are released in each biogas plant during fermentation. These can severely disrupt the biogas process, interfering with methane generation and causing odour and corrosion problems.

Effects of high sulphur concentrations include:

**Disruption of microbiology**
- Inhibition of methane formation
- Precipitation of trace elements
- Killing of methane bacteria.

**Damage to machinery**
- Adverse effect on components
- Corrosion in system
- Higher emissions.

**Damage to CHP**
- Acidification of engine oil
- Corrosion of engine parts
- Loss of warranty.

Methatec Detox S is used for desulphurisation. The iron salts dissolve and bind hydrogen sulphide readily. Other sulphur compounds (i.e. sulphides) are also rapidly fixed.

Added directly to the digester, Methatec Detox S ensures methane formation takes place without hindrance, resulting in consistently high methane output.

Contact Celtic Chemicals

Celtic Chemicals is always happy to hear from you and welcomes all enquiries.

Celtic Chemicals Ltd
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Celtic Chemicals has a wealth of experience in manufacturing, processing and blending trace elements for industry. The company's background in manufacturing mixed trace elements for metal finishing, electronics, animal husbandry, agriculture and many other applications has aided in developing bespoke trace element blends for anaerobic digestion.

**Analysis**
- External analysis provided by the plant operator.

**Formulation**
- Target values set and trace element requirement calculated.

**Manufacture**
- A bespoke supplement is prepared taking account of the elemental requirement, packaging, and onsite dispensing options.

**Control**
- The plant operator maintains their usual sampling/analysis program and reports the levels to Celtic Chemicals; after the initial period expires either a recalculation is required or more often than not another batch of maintenance dose is produced and forwarded to customer.

**Turnaround**
- From receipt of analysis Celtic aims to dispatch a fully tailored trace element dosing plan within 3-4 days.

Celtic can offer a range of dry blended trace element dosing products, these are formulated in the same way as the aqueous products but sold in soluble bags.

Call us on +44 (0) 1656 749 358 for further details.

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**Benefits**

**Include**
- Tailored nutrient dosing plan
- Optimising & stabilising methane production
- Aqueous products supplied in 5, 10 or 25 litre jerricans, 200 litre drums or 1000 litre IBC’s
- Dried products supplied in UN approved resealable HDPE drums with soluble inner bags
- Up to 100 day dose plan – Concentrated shock doses to boost trace element content
- Increased growth & metabolic activity of methane producing bacteria
- Reduced odour
- Reduced VFA
- External analysis of digestate ensures that the operator retains control of dosing and can adjust dosing rates or target values to achieve a cost effective plan
- Full safety data for each bespoke blend.

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**“Working With Celtic” How We Operate**

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