

ADFe

Amur
enabling positive energy

Iron Hydroxide - but not as you know it!

BY USING
IT YOU CAN
HELP SAVE
THE PLANET
TOO!

ADFe is an eco-friendly and extremely cost effective alternative to Ferric Chloride or traditional Iron Hydroxide as a way of managing H₂S levels in biogas – and it's produced in the UK!


Mining
Remediation
Authority


PRODUCED
IN THE UK ✓

abagri

ADFe is supplied in bulk bags and is a moist cake which will have a minimum dry matter content of 50% which makes it easy to handle and store

ADFe has a typical iron content of **46%**

*On a dry matter basis

Discover the benefits of ADFe

ADFe is fast acting and has an extremely fine particle size. The clay like material, is made up of tiny particles which readily disperse in the digester. The large number and very small particle size of ADFe means it has a larger overall surface area, than traditional Iron, resulting in a faster binding action of the hydrogen sulphide.

ADFe is recommended to be fed at a substitution rate of 0.56 tonnes of ADFe to 1 tonne of Ferric Chloride and 1.3 tonnes of ADFe to 1 tonne of Iron Hydroxide.

ADFe's effectiveness can prolong the time needed between carbon changes compared to traditional iron hydroxides, resulting in significant savings.

ADFe is recommend being fed once a week rather than daily which saves time unless you need to control spikes in H₂S

ADFe is produced by the British Mining Remediation Authority who have invested in innovative methods of concentrating suspended particles, known as Ochre, into a consistent solid material. The Ochre is then blended into a consistent product which has a high specification, and is produced to strict quality controls.

◀ ADFe is supplied as a moist cake for easy handling & storage.



Easy to store

- As ADFe is moist it can be stored outside without adverse effects
- The large bags will be delivered on pallets for ease of use

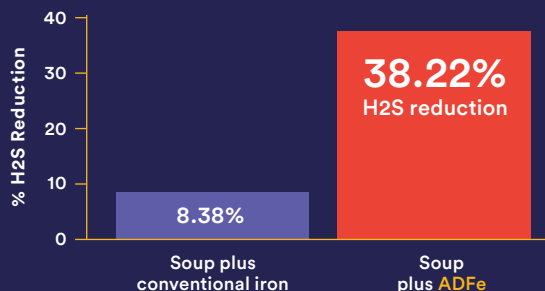
Easy to handle

- You just rip the bag open using the forks of the forklift and then pull the bag away from it
- Then scoop up the ADFe and put on top of your other solid feeds

IS THIS
THE BEST
THING SINCE
SLICED BREAD?
WE THINK IT IS
WHEN TRYING TO
CONTROL H₂S IN
AD PLANTS

Trial data on ADFe's effectiveness

Trial data shows that ADFe is typically **30% more effective** than traditional iron hydroxide at reducing H₂S!



	SOUP	SOUP PLUS CONVENTIONAL IRON	SOUP PLUS ADFe
BMP as fed	82	86	79
H ₂ S			
3	55	53	32
7	46	40	27
14	35	34	25
21	30	27	18
28	25	21	16
Average	38.2	35	23.6
% H ₂ S Reduction		8.38%	38.22%

Helps extend the life of your carbon

■ 18 months of trials at Amur's own AD plant (which is gas to grid and fed on food waste) has reduced the amount of iron hydroxide by roughly a third using ADFe, while also **extending the life of carbon filters** from typically changing them every 55 days to every 75 days.

■ Due to the efficiency of this product, Amur have **saved £100 per day** on its carbon costs which equates to **£36500 per annum**.



For more information, please contact the Amur team
Visit amurenergy.co.uk or call us on +44 (0)7519996581

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