



Argent *Distilled* Biodiesel (ADB)

# high blends

## Carbon Reduction at Competitive Prices



### Argent *Distilled* Biodiesel

Argent Biodiesel is manufactured, and *distilled*, solely from waste oils and fats to give guaranteed high quality fuel and the best carbon and sustainability scores available. With every batch tested and confirmed as reaching the European quality standard, EN14214, our biodiesel can now be supplied as a high blend drop-in replacement for mineral diesel reducing carbon emissions by around 5 tonnes for every 10,000 miles covered.

### Argent Energy

- Largest producer of biodiesel in the UK producing around 1 million litres/week.
- Only waste oils and animal fats used as raw materials; no cropped vegetable oils.
- Only manufacturing process in the UK specifically designed to attain very high grade fuel from wastes by using distillation.
- 'Most sustainable biodiesel supplier/producer 2009' – World Biofuels Conference

### Blending

By using high blends (>7% biodiesel mixed with diesel), our distilled biodiesel can offer large carbon savings without operational efficiency losses. Independent research shows that 25% to 30% blends (B25 to B30) give the best mpg, usually equalling or exceeding that of mineral diesel.

The blending can be done easily at depot level thereby giving users full control and flexibility of the product. The blending system is automated, accurate and easy to install. Blend levels can be changed at the press of a button or automatically adjust for particular vehicles.

### Process

Ours is the only plant in the UK to utilise distillation technology, widely regarded as the only process capable of taking variable and low quality raw materials and converting them to biodiesel of the EN14214 standard in all aspects.

First, a large new pre-treatment plant cleans the raw material and prepares it for the start of the chemical process. Oils then move to a pre-esterification phase before undergoing the full reaction called transesterification which gives us crude biodiesel. Finally, the by-products of glycerine and fertiliser are drawn off before the fuel is distilled to produce a homogenous, clear and very clean biodiesel.



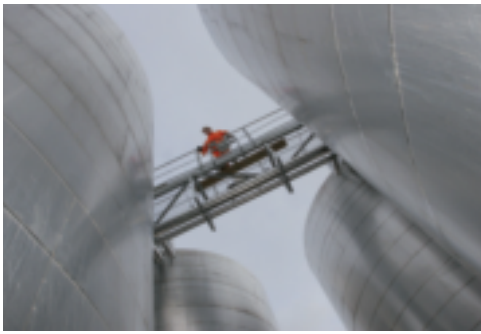
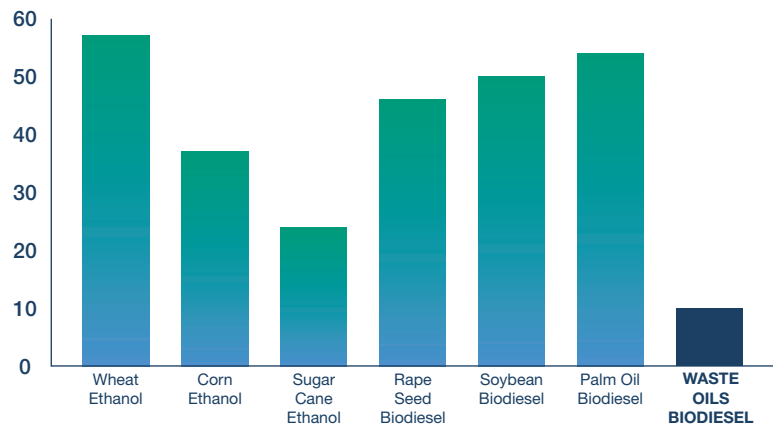
To learn more about Argent Distilled Biodiesel and how it compares to other biodiesel on the market contact:  
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# Argent Distilled Biodiesel Characteristics

## Carbon Reduction and Sustainability

Because all Argent biodiesel is derived from waste and residues it is the *most sustainable*. We do not use any pure vegetable oil such as rapeseed, palm or soybean that have been criticised for poor sustainability. It also has the *best Greenhouse Gas (GHG) reduction*. This table shows how our biodiesel compares to other biofuels and is partly why, against international competition, last year we were voted '*Most sustainable biodiesel supplier/producer 2009*'.

GHG Emission (gCO<sub>2</sub>eq/MJ)



## Operational & Technical

**MPG:** detailed research has shown our biodiesel offers the maximum fuel efficiency in a 20 to 30% blend.

**Cold weather operations:**  
A 25% blend (B25) will comply with the UK minimum temperature standards for standard diesel, whatever time of year.

**EU Standard:** Every litre of Argent biodiesel is distilled and tested. It is only released from site when it has proven to fully comply with EN14214, the EU standard for biodiesel.

**Blend variation:** Blend levels can be easily changed at different times of year or with particular vehicles. Vehicles can also run on 100% biodiesel after a relatively simple engine conversion, maximising Carbon savings.

**Distillation:** Most processes finish at transesterification. In comparison, distilled biodiesel produces a consistently high level of fuel stability and purity, typically with a fraction of the water content (water can lead to 'bug' growth in tanks) and a fraction of the contaminants. Many of these contaminants do not dissolve in the fuel and can cause filter blocking.



## Price

Blended biodiesel typically compares favourably with mineral diesel because of the support given to it by the UK and EU governments.

A UK fuel duty rebate of 20ppl is available for biodiesel made from UCO and bus operators can reclaim all the duty on 'sustainable' biodiesel in Scotland through BSOG. A full duty rebate is also available in England and Wales.



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