

Gen³

THE CLEANER GREENER FUEL OIL



A Hydrodec Group Company



OSS GROUP

WASTE SOLUTIONS ~ REFINED

THE LATEST MOST ADVANCED PFO

Gen³

Gen3™ is the most advanced and totally compliant Processed Fuel Oil (PFO) available in today's market. It is the result of over seven years and £6million research and development.

An environmentally beneficial and cost effective alternative to virgin fuel oils, Gen3™ is produced to the same BS 2869 specification as virgin fuel oils. It meets all the technical and legal requirements of the End of Waste Quality Protocol for Processed Fuel Oil.

A wide range of industrial uses

Gen3™ offers savings of around 20% over virgin fuel oils as well as cleaner burn characteristics. As such the product has a wide range of applications across many sectors including industrial and process heating, glass production, hospitals, quarrying, power generation, brewing and food processing.

It has a typical sulphur content as low as 0.50% and benefits from higher calorific values with no requirement for tank or trace heating. It does not need to be continually re-circulated when in storage.

Critical testing for total compliance

To be totally compliant, every newly produced batch of PFO must meet all the rigorous quality assurance testing regimes of the international ISO 17025:2005 standard that now applies, which are being strictly enforced by the Environment Agency.

To better achieve this we have installed our own industry leading UKAS accredited laboratory, allowing instant batch testing, and therefore a more rapid and reliable supply. The laboratory is located at our Stourport facility where the Gen3™ production takes place.

Specially designed production plant

Gen3™ is produced from used mineral oils. As well as producing fuel oil, OSS Group is also one of Europe's largest waste oil collection companies. All the waste oil we collect from thousands of companies across the UK is used as feedstock for our PFO.

Gen3™ is produced exclusively by OSS Group at our own UK refinery in Stourport-on-Severn, Worcestershire. This specially designed plant utilises a full recovery operation in accordance with the Waste Framework Directive (WFD).

Our Gen3™ helps conserve fossil fuels and creates a smaller carbon footprint during production when compared to virgin oils.



SECTORS



BOILERS



QUARRYING



INDUSTRIAL



POWER

Gen³ Product Specification

Property	Units	Limits	Typical
Sulphated Ash Content	% m/m	0.20 Max	0.15
Net Calorific Value	MJ/Kg	43.0	43.5
Carbon Residue	% m/m	2.0 Max	1.2
Chlorine	mg/Kg	150 Max	130
Flash Point	Deg C	66.0 Min	90.0
Pour Point	Deg C	-10.0 Upper	-40.0
Solids	% m/m	0.15 Max	0.10
Sulphur	% m/m	1.0 Max	0.50
Viscosity @ 40 Deg C	mm ² /s	28 - 45 Max	44.00
Viscosity @ 100 Deg C	mm ² /s	8.5 Max	7.9
Water	% m/m	0.75 Max	0.30

Gen3™ complies with EA protocol. Full suite of metal analysis available on request.

Gen³ Comparison with virgin fuel oil alternative

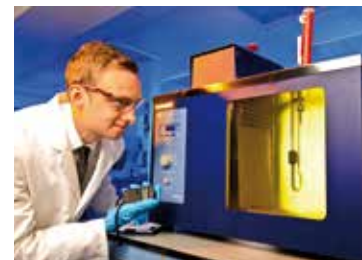
Property	Units	Limits				
		Gen3™	HFO	MFO	LFO	Gas Oil
Sulphated Ash Content	% m/m	0.15	0.15	0.15	0.15	0.01
Net Calorific Value	MJ/Kg	43.5	43.10	42.50	44.00	42.50
Carbon Residue	% m/m	1.2	20.00	18.00	15.00	n/a
Flash Point (minimum)	Deg C	66.00	66.00	66.00	50.00	56.00
Solids	% m/m	0.10	0.15	0.15	0.15	0.01
Sulphur	% m/m	0.50	1.0	1.0	1.0	0.2
Viscosity @ 40 Deg C	mm ² /s	44.00	1010.00	300.00	45.00	5.50
Water content	% m/m	0.30	1.00	0.75	1.00	0.02

Some LFO grades comply with BS 2869 and have a flash point greater than 66 Deg C.

Many blended LFO fuels do not comply with a number of the BS parameters.

The max ash and solids content for LFO to BS2869 Class E is 0.1%

HFO: Heavy fuel oil. MFO: Medium fuel oil. LFO: Light fuel oil.



OSS Group

The OSS Group produces a range of recycled/recovered fuel oils including our unique processed fuel oil (PFO), Gen3™ – an environmentally acceptable and cost effective alternative to virgin fuel oils.

The company is one of Europe's largest waste oil and hazardous workshop waste collection and recycling specialists; the waste oil is used as feedstock for our fuel oil processing. We provide the most practical, cost effective and environmentally responsible solutions for the safe collection and recycling of a wide range of hazardous workshop wastes.

We achieve at least a 95% recycling and recovery rate on all the waste we collect, much of which is processed at our own facilities in the UK. We operate a zero landfill policy. The continual use of best available techniques (BAT) ensures we have the most commercially and environmentally beneficial solutions for all of our customers.

The company can trace its history back over 30 years, initially focussing on waste oil collection and recycling. From this base we expanded our range of services with particular emphasis on the research and development of a new generation of processed fuel oils which exceed the standards of "mere" recycling.

Continuous investment in innovative systems, new plant and technology is backed with the OSS Group commitment to provide customers with a first class service.

For all enquiries relating to Gen3™ please contact :-
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