

NIRVA 35 INDUSTRIAL HEATING OIL

- Nirva 35 is certified to BS2869 Class D heating requirements
- Consistent and Reliable Heating Performance
- Regulation Compliant Emissions
- Controlled Costs



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Nirva is an independent importer and wholesaler of consistently high-quality, independently certified fuel. Control your fuel supply with confidence. With a short and carefully managed supply chain, we can give full confidence in our product and supply.



CONSISTENT AND RELIABLE HEATING PERFORMANCE



Consistent Performance

- ✓ Nirva 35 is designed specifically for heating applications, meeting the British Standard BS2869 Class D heating requirements.
- ✓ The energy in the form of heat Nirva 35 generates during combustion is consistently high and predictable due to the consistently high calorific value.
- ✓ The gross calorific value is consistently between 45.2-46 MJ/Kg, ~12.58kWh/kg, ~10.57 kWh/litre.
- ✓ Manufactured from virgin-grade refinery feedstocks – ensures consistent quality and performance.
- ✓ Gives the peace-of-mind that comes with dependable performance.

Reliable Supply

- ✓ Certified, independently tested fuel, meeting heating requirements of British standard BS2869 Class D.
- ✓ Imported, produced and supplied through a streamlined, short wholesale chain via our import and blending terminal.
- ✓ Delivered on schedule by our dedicated transport fleet.
- ✓ Supported by a team of fuel supply experts that truly care.

Dependable Cold Weather Performance

- ✓ Outstanding cold weather performance – no waxing, reliable operation even in low temperatures, safe to store year-round.
- ✓ Designed specifically for heating applications so the cold properties are excellent.
- ✓ There is only one grade; winter grade. So, fuel bought in the summer will be good to use in the winter.
- ✓ Bio content (FAME) is the leading cause of poor cold weather performance. Nirva 35 contains minimal traces of Bio.
- ✓ Trouble free flow in the coldest weather.
- ✓ The fuel does not contain waxy components, to boost performance in Diesel engines, so no risk of waxing in cold weather.

Trouble free flow in the coldest weather.

Controlled Costs

- ✓ Consistently low pence per Kilowatt hour cost. Consistently high gross calorific value (between 45.2-46 MJ/Kg, ~12.58kWh/kg, ~10.57 kWh/litre) and relatively low pence per litre cost.
- ✓ Pence per kilowatt hour is the true measure of heating oil cost not pence per litre.
- ✓ Fully rebated for heating use – when used with a dedicated tank, unlock significant savings and operational efficiency. For heating use only.
- ✓ No costly downtime from filter blockages, fuel pump damage, fouling of transfer surfaces (eg tubes and tube plates) often caused by Processed Fuel Oils (PFO) or PFO blends..
- ✓ Shield your fuel budget from market swings—lock in stable, predictable pricing and protect profitability with Nirva's fixed-price fuel supply.

Regulation Compliant Emissions

- ✓ Designed to comply with the Large Combustion Plant Directive (LCPD 2001/80/EC) and EU Medium Combustion Plant Directive (MCPD 2015/2193), including the sulphur-oxide (SO₂) limits.
- ✓ Sulphur content is a maximum of 0.1% m/m, BS8754 test method.
- ✓ The MCP Directive is the latest instrument to ensure the EU's implementation of the Gothenburg Protocol under the UNECE Convention on Long-Range Transboundary Air Pollution.
- ✓ The MCPD was enacted by the EU on 18 December 2015. Plants that come into operation after 20 December 2018 are classified as "new plant" in the MCP Directive; its emissions limit values (ELVs) apply as soon as the plants start operating. Older plants are classified as "existing plants" by the Medium Combustion Plant Directive. They must conform to the MCP Directive's ELVs by 2025 or 2030, depending on their size.
- ✓ Lower Sulphur content than 1% m/m max Medium or Heavy Fuel Oil, MFO BS2869 Class F or HFO BS 2869 Class G. Compliant with upcoming emission regulations.

Applications

Nirva 35 - Industrial Heating Oil is certified to BS2869 Class D heating requirements — purpose-built for reliable, cost-efficient heating performance.

Drop-in compatible with both industrial boilers and open furnace direct flame systems.

A cost-efficient drop-in alternative to Gas Oil - with no compromise on performance.

A dependable, low-hassle replacement for Processed Fuel Oil, made from waste lubricating oils, or PFO-blends 'PFO Lite'.

A viable alternative to Medium and Heavy Fuel Oils (BS 2869 Class F / Class G), offering: Compliance with forthcoming emissions regulations, a secure supply chain, ambient-temperature storage, easier handling and reduced maintenance.

SPECIFICATION



Middle distillate fuel for heating applications

Property	Unit	Limits		Test Method	Typicals
		Min	Max		
Appearance	Visual	Clear & Bright		D4176	Clear & Bright
Kinematic Viscosity at 40 °C	Mm2/s	1.7	6	IP71	3
Density at 15 °C	KG/m3	820	-	IP365	832
Carbon residue (Micro)	% (m/m)	-	0.3	ASTM D 4530	<0.01
Flash Point	°C	45	-	IP34	55
Water Content a)	% (m/m)	-	0.02	IP438	<0.02
Particulate content	mg/kg	-	24	IP415	<5
Ash Content	% (m/m)	-	0.01	IP4	<0.001
Silicon Content	% (m/m)	-	0.0001	IP336	<0.0001
Sulfur Content	% (m/m)	-	0.1	IP336	0.03
Copper Corrosion (3h at 50°C)	Class	-	1	BS EN ISO 2160	1a
Cold Filter Plugging Point (CFPP) b)	°C			IP 309	
Summer (16 March to 15 November)		-	-4		<-12
Winter (16 November to 15 March)			-12		<-12
Strong Acid Number	mg KOH/g	-	Zero	IP139	Zero
Lubricity, corrected mean wear scar diameter (wsd 1.4) at 60 °C	um	-	460	BS 2000-450	340
Oxidation Stability at 110 °C	M	60	-	EN16091	70

Nirva 35 can only be used in heating applications, it is not to be used as fuel for any engine, motor or other machinery.

- a) If sample is not clear & bright, the water content limit shall apply
 b) Winter grade all year round

Additional Data

Equivalent to MJ / kg of CO ₂ produced	14.4 MJ / kg CO ₂ ,
Gross specific Energy (calorific value)	
MJ / kg of Oil	45.2
MJ / litre of Oil	37.4
Net specific Energy (calorific value)	
MJ / kg of Oil	42.6
MJ / litre of Oil	35.2

Switch with ease

Nirva 35 is drop-in replacement for heating applications configured to use Gas Oil. Initially mixes with your current Gas Oil in all proportions. For peace-of-mind, we offer combustion engineering support to manage the transition easily.

Your Partner for Reliable Fuel Supply, Controlled Costs and Lower Carbon Emissions