



ECONEPAL
Energy Industries Pvt. Ltd.

JOIN THE JOURNEY TO A GREENER FUTURE WITH **TYRE PYROLYSIS OIL...**

☎ SEZ Bhairahawa, Rohini-1, Rupandehi, Nepal
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ABOUT US

Econepal Energy Industries Pvt. Ltd. (EEI) stands as a pioneering force in Nepal's pyrolysis industries. The production of pyrolysis oil from waste tyres and rubber scraps represents a new initiative in Nepal, with the dual goals of contributing to the economy and mitigating pollution in populated areas. Our vision entails expanding the capacity of this recently established sector to position it as a leading industry in the nation. Within a short timeframe, our team's competence, effective management, robust infrastructure, and unwavering commitment to quality and ethical business practices have earned trust and appreciation from our clients.

The promoters of EEI bring extensive experience in establishing and successfully operating various industries, including large-scale noodle and biscuit production, GI pipe fittings manufacturing, Chinese brick production, furnace oil production, and automobile businesses, as well as managing diverse business establishments.



PRODUCTS

Tyre Pyrolysis Oil (TPO)

Black Carbon Powder

Burned Still Wire





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HOPE ON THE RIDE TO A BETTER WORLD WITH **TYRE PYROLYSIS OIL...**

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Tyre Pyrolysis Oil (TPO)

We produce Tyre Pyrolysis Oil (TPO), which serves as a significant fuel source for heavy industries like construction, steel, cement, and boiler factories, as well as for hotel heating. TPO is comparable to Furnace Oil (FO) and Light Diesel Oil (LDO) commonly found in the market. It can be efficiently utilized to generate heat through direct combustion in boilers or furnaces. Our focus lies on maintaining exceptional purity and quality in our product.

Tyre Pyrolysis Oil (TPO) as a fuel in:

- ☒ Road Constructions (Asphalt Plant)
- ☒ Biscuit Factories
- ☒ Cement Plants
- ☒ Steel Factories
- ☒ Boilers
- ☒ Furnaces
- ☒ Ceramic Factories
- ☒ Glass Factories
- ☒ Brick Factories
- ☒ Hot Water Generators
- ☒ Hot Air Generators
- ☒ Thermic Fluid Heater
- ☒ Power Plant



Advantages of Tyre Pyrolysis Oil (TPO) over Furnace Oil (FO) and Light Diesel Oil (LDO):

- ☒ It is not required to be pre heated like furnace oil before use. It Saves energy costs.
- ☒ Calorific value is higher than in Furnace oil.
- ☒ Sulphur content is less around 3.1% as compared to Furnace Oil (FO). Hence SOX pollution is less.
- ☒ Pyrolysis Oil has less ash and water content as compared to FO.
- ☒ Pyrolysis Fuel Oil does not require any type of blending.
- ☒ 5 to 10% saving against Furnace Oil.

Comparison

Tyre Pyrolysis Oil (TPO) vs. Furnace Oil (FO) vs. Light Diesel Oil (LDO)

S. No	Test Parameters	Method	Unit	Pyrolysis Fuel Oil	Furnace Oil	Light Diesel Oil
1.	Density at 15°C	ASTM D 1298	G/CC	0.87-0.93	0.88-0.98	0.85-0.87
2.	API Gravity	ASTM D 1298	-	25.40	13.05	27.54
3.	Viscosity at 100°C	ASTM D 2161	SUS	29	65	42
4.	Sulphur Total, % Wt.	ASTM D 129	% Wt	Up to 1	Up to 4	Up to 1.8
5.	Water Content. % Vol.	ASTM D 95-05	% Vol	Up to 0.25	Up to 1.0	Up to 0.25
6.	Ash	ASTM D 482	% Wt	Up to 0.05	Up to 0.1	Up to 0.02
7.	Calorific Value	Bomb Calorimeter	Cal/g	10400± 3%	10000+	10600
8.	Color / Appearance	ASTM D 1500	-	Dark/Black	-	-



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Black Carbon Powder (Black Cat Carbon)

Black Carbon Powder (Black Cat): Carbon black serves as a crucial raw material or primary ingredient across various industries. Its chemical composition enhances strength, durability, and coloring properties.

- Carbon black can be utilized in cement factories by blending it with cement as a partial replacement for coal and ash.
- Carbon black serves as a heat source for heating reactors and claims a slightly higher heating value than coal. Moreover, we can further process carbon black into pellets, offering an alternative heating fuel to coal. Carbon black pellets can be used for heating to various industries such as cement factories, steel factories, glass factories, and brick factories.

Benefits of Carbon Powder:

- High Calorific Value equivalent to 'A' Grade Coal imported from South Africa.
- Less Moisture % results in less energy being wasted.
- Ash Content comparable to Coal.
- Less Volatile Matter % results in less smoke.
- More Fixed Carbon helps in generating more heat energy.

Usage of Carbon Black in:

- Brick Industries
- Cement Industries
- Carbon Briquetting Plant
- Rubber Industries
- Ink Industries
- New Tyre Manufacturing
- Rubber Runway
- Shoe Sole etc



Fuel Char

(Pyrolysis Carbon Powder) Specification

S. No	Test Parameters	Unit	Fuel Char
1.	Calorific Value	Cal/g	6250 ± 2%
2.	Moisture % (Max)	%	Up to 3%
3.	Ash % (Max)	%	Up to 20%
4.	Volatile Matter % (Max)	%	Up to 3%
5.	Fixed Carbon %	%	75-85%
6.	Particle Size	Mesh	Less than 30
7.	Color / Appearance	-	Black



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