

## PYROLYSIS OIL

Pyrolysis oil is the end product of waste tyre and plastic pyrolysis, the oil is wide used as industrial fuel to substitute furnace oil or industrial diesel.

The pyrolysis oil is mainly fuel oil used in heavy industry such as construction heating, steel factory, cement factory, boiler factory; hotel heating etc, the oil is closed to NO.2 diesel. By direct combustion in a boiler or furnace pyrolysis oil can be used to produce heat.

### Pyrolysis Oil Specification:

S. NO	Test Parameters	Method	Unit	Pyrolysis Fuel Oil
1	Density at 15°C	ASTM D 1298	G/CC	0.87-0.93
2	API Gravity	ASTM D 1298	-	25.4
3	Viscosity at 100°C	ASTM D 2161	SUS	29
4	Sulphur Total, % Wt.	ASTM D 129	% Wt	Up to 1
5	Water Content, % Vol.	ASTM D 95-05	% Vol	Up to 0.25
6	Ash	ASTM D 482	% Wt	Up to 0.05
7	Calorific Value	Bomb Calorimeter	Cal/g	10400 ± 3%
8	Color / Appearance	ASTM D 1500	-	Dark/Black



## STEEL WIRE

Scrap wire extracted from old tires is rich with reusable steel for manufacturing new products like high-tension springs, wire mesh, etc.



## RECLAIM RUBBER

Reclaim or reclaimed rubber is any rubber recovered from vulcanized scrap rubber (as by grinding old tires and treating with alkali, oils, and plasticizers), often mixed with crude rubber for compounding. It is scrap rubber (natural or synthetic) that is prepared for reuse. The fragmented scrap is digested in hot caustic solution to which reclaiming agents are added.

Reclaim rubber is primarily used in producing mechanical rubber goods. It is also used in tires, inner tubes, tyre lining, tyre repair, retreading, general moulding, belting, adhesives, mastics, footwear, sheeting, matting, belting, cable bedding compound, and sound reduction.



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AT W2R, WE BELIEVE IN THE POTENTIAL OF RECYCLING  
AND ITS POSITIVE IMPACT ON THE ENVIRONMENT

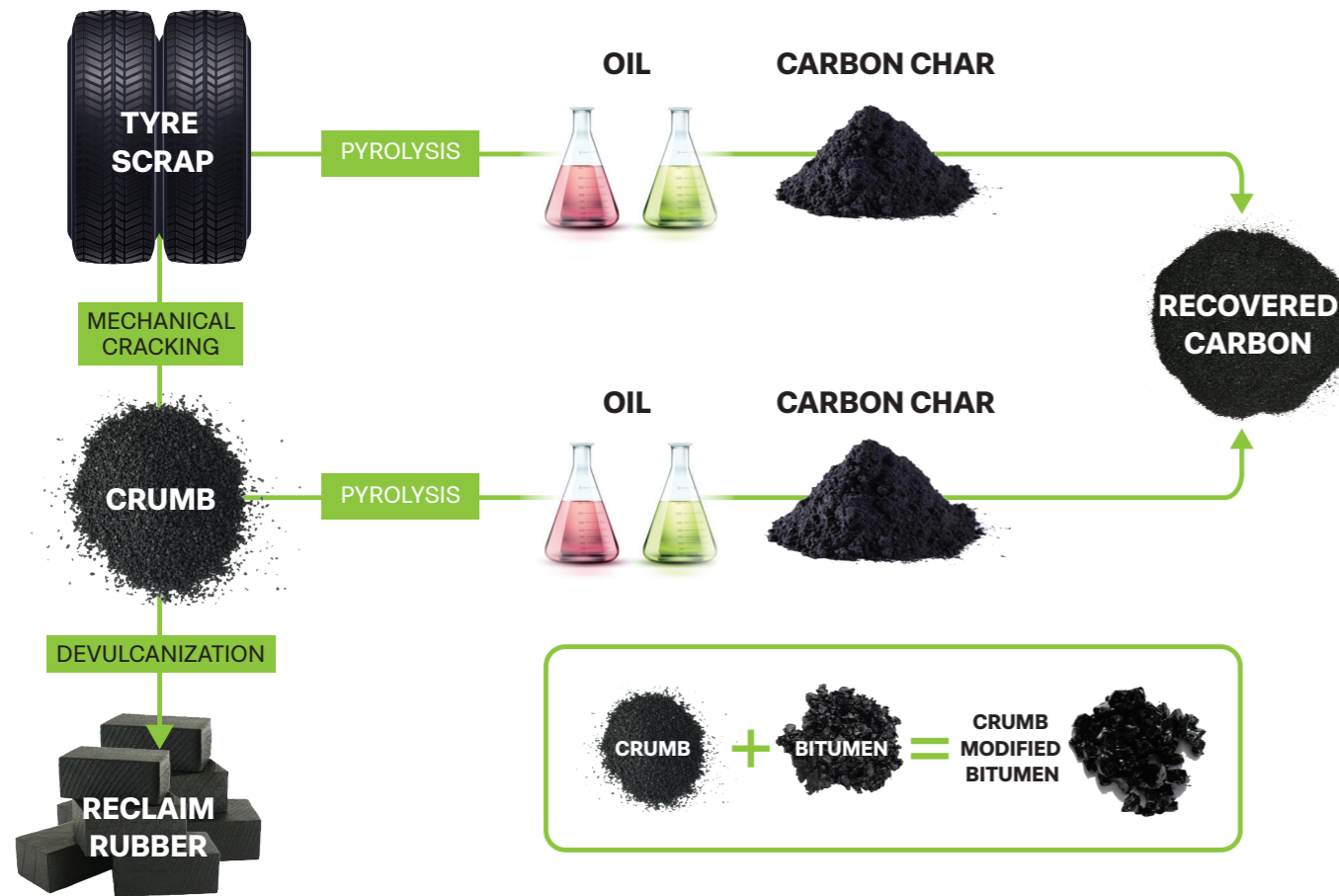


At W2R, we believe in the potential of recycling and its positive impact on the environment. Our company has a rich history of successfully recycling products like Tyre and Plastic, and we also offer consulting services to help others set up their recycling plants, obtain EPR Licenses and manage the sale and purchase of recycled materials. We are a company that up cycles waste rubber tyres from the environment transforming them into a dynamic range of products.

## RECYCLED PRODUCTS

Tyre recycling is a process of converting waste tires into usable products. The main objective of recycling tires is to reduce the environmental pollution caused by waste tires. Tyre recycling also provides several other benefits such as creating new jobs, saving energy, and reducing the amount of waste sent to landfills.

### HOW WE RECYCLE TYRE



### BENEFITS OF TYRE PYROLYSIS SYSTEM IN RECYCLING OF RUBBER SCRAP

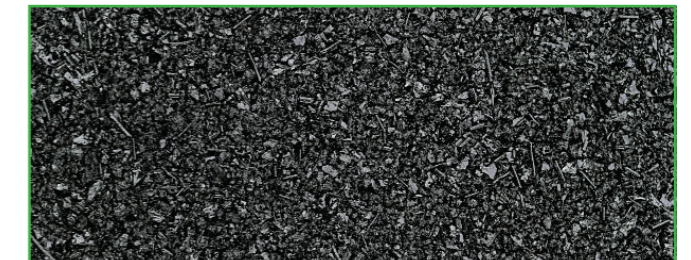
- 100% recycling of tyre wastage is achieved (No rubber left after the process)
- No chemical ingredients are used in tyre recycling process (environment friendly)
- During and after the tyre recycling process; no soil, water or air pollution is observed
- Derives energy resources in form of oil and char out of waste tyres
- Each recycled ton of tyres preserves 10 tons of CO2 that is a major green house gas
- Help in reducing pollution due to waste/scrap tyres
- The tyre recycling process can be applied to all rubber based materials

### OUR SERVICES



#### TYRE

Tyre recycling is a growing industry, and there are many opportunities for those interested in starting their own tyre recycling business. With the right equipment and knowledge, starting a tyre recycling business can be a profitable and rewarding venture.



#### CRUMB RUBBER POWDER

Tyre crumb is easily used for road paving, making these roads stay for much longer without potholes, cracks, or deformations, if we compare them to regular asphalt roads, they also provide to drivers with a more comfortable route and improvements in the impacts caused to the vehicle in general.



#### CARBON CHAR

Provides a discussion of sources of biomass feedstock, such as agricultural, woody plants and food processing residue. Discusses the various production processes of biomass chars, including pyrolysis and hydrothermal carbonization. Explores various applications of biomass chars within different industries, including energy and agronomy.

#### 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