

TECHNICAL DATA SHEET – HKM L60

Version: 2.0, Dated 30th June 2026

Product: Tire Pyrolysis Oil (TPO) – Light Fraction – HKM L60

Source: End-of-Life Tires (ELTs)

Production Method: Continuous Pyrolysis Reactor

Production Site: Saint Mary Parish, Louisiana. USA.

Technical Data Sheet

HKM Light Hydrocarbon Fraction (Approx. 60% Yield)

1. Company Introduction

HKM Circular Ventures is developing advanced end-of-life tire recycling projects that convert waste tires into valuable circular hydrocarbon products through continuous pyrolysis and downstream fractionation. The company focuses on producing refinery-compatible hydrocarbon streams and sustainable carbon products for the refining, petrochemical and carbon black industries.

2. Product Description

The Light Hydrocarbon Fraction is produced by controlled fractionation of raw tire pyrolysis oil. Approximately 60 wt% of the raw oil is recovered as a light hydrocarbon stream intended for refinery co-processing, hydroprocessing, renewable transportation fuels and industrial fuel blending.

3. Typical Product Specification and Industry Benchmark

Property	Typical HKM Result	Typical VGO / Refinery Feed Benchmark	Method
Appearance	Clear Amber to Dark Brown	Clear Amber to Brown	Visual
Yield	60 ±3 wt%	Process dependent	Process
Density @15°C	0.865 kg/L	0.88–0.93 kg/L	ASTM D4052
Flash Point	28°C	60–120°C	ASTM D93
Initial Boiling Point	35°C	>150°C	ASTM D86
Final Boiling Point	270°C	350–550°C	ASTM D86
Viscosity @40°C	2.8 cSt	2–10 cSt	ASTM D445
Sulfur	0.45 wt%	0.5–2.0 wt%	ASTM D4294
Water	<0.20 wt%	<0.20 wt%	ASTM D6304
Sediment	<0.02 wt%	<0.05 wt%	ASTM D473
TAN	2.0 mg KOH/g	Typically <2	ASTM D664

Carbon Residue	0.4 wt%	<2 wt%	ASTM D4530
Ash	<0.01 wt%	<0.05 wt%	ASTM D482
Heating Value	42 MJ/kg	41–43 MJ/kg	ASTM D240
Estimated Biogenic Carbon	42%	0%	ASTM D6866

4. Performance Comparison with Conventional Petroleum Feedstocks

Deliverable / Performance Parameter	HKM Light Fraction	Conventional VGO / Refinery Feed
Renewable Carbon Content	Yes (~42%)	No
Circular Economy Product	Yes	No
Suitable for SAF Co-processing	Yes	Yes
Suitable for FCC / Hydrocracker Feed	High	High
Industrial Fuel Blending	Excellent	Excellent
Energy Content	High	High
Sulfur Content	Low	Medium
Carbon Residue	Low	Low
Ash Content	Very Low	Very Low
Sediment	Very Low	Low
Catalyst Compatibility Potential	High*	High
Hydrogen Requirement	Moderate*	Moderate
GHG Reduction Potential	High*	Low
Storage Stability	Good*	Excellent
Overall Sustainability Profile	Excellent	Moderate

*Performance subject to customer qualification, pilot validation and process compatibility studies.

5. Conclusion

The HKM fraction is designed as a sustainable alternative to conventional petroleum-derived feedstocks while maintaining comparable technical performance for its intended industrial application. Final commercial specifications shall be confirmed through certified laboratory analysis and customer qualification.

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