



CIRCOSOL™ 5100T

Introducing CIRCOSOL™ 5100T—the latest innovation from HollyFrontier Specialty Products, an HF Sinclair brand, developed specifically to deliver exceptional performance benefits for rubber compounders and tire manufacturers. From improved winter and dry traction to enhanced wear resistance, this low PAH Treated Distillate Aromatic Extract (TDAE) is set to take your product's performance to the next level.

READY TO MEET THE GROWING DEMANDS OF THE TIRE & RUBBER INDUSTRY

- Reliable TDAE supply for a variety of applications in tire manufacturing and rubber compounding
- A versatile and compatible TDAE solution that meets diverse industry needs while maintaining compatibility with synthetic polymers
- Superior performance compared to other TDAE, naphthenic oils and aromatic oils
- Engineered to meet the unique demands of electric vehicles' wear resistance, low rolling resistance and superior traction to optimize performance, efficiency and driving range
- A non-carcinogenic product that reduces environmental impact

THE CIRCOSOL™ 5100T DIFFERENCE:



NON-LABELED LOW PAH OIL



IMPROVED WEAR AND ABRASION
RESISTANCE



LOW POLARITY AND EXCELLENT
COMPATIBILITY WITH POLYMERS
SUCH AS SBR & BR



LOW SPECIFIC GRAVITY IN
COMPOUNDS, DELIVERING SAVINGS

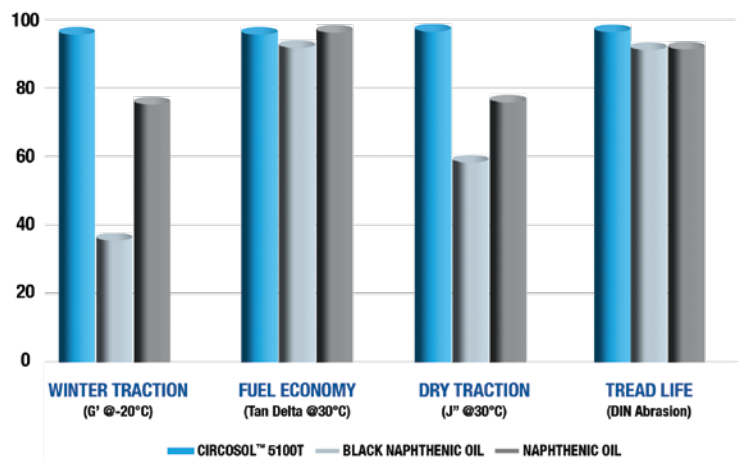
QUALITY YOU CAN TRUST

As an established industry leader, HollyFrontier Specialty Products has the technical expertise, experience and history to partner directly with rubber manufacturers and build shared success.

TYPICAL PROPERTIES OF CIRCOSOL™ 5100T

PROPERTY	METHOD	CIRCOSOL™ 5100T
Viscosity @ 100°C, cSt	ASTM D445	17.80
Density @ 15°C, kg/L	ASTM D4052	0.929
Aniline Point, °C	ASTM D611	86
VGC @ 100°C	ASTM D2501	0.854
Refractive Index	ASTM D1747	1.5133
Carbon Type, C _A	ASTM D2140	17%
Carbon Type, C _N	ASTM D2140	28%
Carbon Type, C _P	ASTM D2140	55%
Aromatic Compounds	ASTM D2007	59%
Polar Compounds	ASTM D2007	5%
Saturate Compounds	ASTM D2007	36%
Polycyclic Aromatic Hydrocarbons (PAH)	EN 16143:2013	<10

Dynamic Mechanical Analysis Tire Performance Predictor
(HIGHER IS BETTER)



CIRCOSOL™ 5100T OUTPERFORMS

When compared to black naphthenic oil and naphthenic oil, CIRCOSOL™ 5100T outperforms in winter and dry traction, fuel economy and tread life (improved resistance to wear).

When compared to naphthenic oils, CIRCOSOL™ 5100T delivers:



To learn more call 1-800-395-2786 to speak with your HF Sinclair Sales Representative.

www.hollyfrontierspecialties.com

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HOLLYFRONTIER™
SPECIALTY PRODUCTS
AN HF SINCLAIR BRAND