

## Aromatic Esters Technical Data Sheet

Aromatic esters are a unique class of synthetic esters which are made from an aromatic polycarboxylic acid such as trimellitic or pyromellitic acid and a monofunctional alcohol. The aromatic center is a strong and stable core structure, providing excellent thermal, oxidative and hydrolytic stability. The multiple ester groups create polarity that enhance the fluids ability to solubilize degradation products. Aromatic esters are high viscosity base oils that are extremely stable to thermal and chemical attack.

Aromatic esters have a narrow molecular weight distribution, and do not contain volatile light fractions or heavy fractions which can lead to weight loss or polymerization in service. While favored for their stability, the rigid aromatic group reduces lubricity and viscosity index compared to high viscosity complex esters. Aromatic esters exhibit a low pour point, but their use in extreme cold environments is limited because their viscosity increases rapidly at low temperatures.

Aromatic esters are preferred base fluids for high temperature applications. They have low volatility and will not form polymer varnish which helps extend fluid and equipment life. This feature makes them well suited for use in compressor fluids, gear oils, oven chain lubricants and grease.

Synthetic Ester	Chemistry	Viscosity @ 40°C (cSt)	Viscosity @ 100°C (cSt)	Viscosity Index	Flash Pt. (°C)	Pour Pt. (°C)
LUBRICIT 3810	TM	52	8.1	125	280	-50
LUBRICIT 3090/1	TM	115	12	85	280	-15
LUBRICIT 3010	TM	135	13	80	280	-40
LEXOLUBE 4PM-114*	PM	170	16	90	275	-30
LUBRICIT 3013	TM	185	17	95	290	-30
LUBRICIT 2026	TM	195	17	90	275	-35
LUBRICIT 3023/1	TM	220	16	75	285	-25
LUBRICIT 3013/1	TM	320	20	70	290	-30

### Features

- High viscosity
- Low volatility
- Oxidation resistance
- Hydrolytic stability
- Long fluid life
- Reduced varnish

### Applications

- Chain oils
- Gear oils
- Grease
- Compressor fluids
- Plasticizers

Please inquire about additional tailor-made products that can be made to fit your exact performance requirements.

\*Certain methods and uses may be covered by one or more awarded or pending patents held by Zschimmer & Schwarz worldwide

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