



# LUBRICANTS™

POWER TO PERFORM™

## HP ELASTO SUPREME (TRAЕ)

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Aromatic process oils are primarily used in the manufacture of tyres. A typical tyre tread may contain a substantial weight of this aromatic extender Oil. These oils contain Poly Aromatic Hydrocarbons (PAH) / Polycyclic Aromatic Hydrocarbons (PCA). It has been scientifically proved that a PCA Content of more than 3% weight is directly proportional to the risk of cancer in human beings. The PCAs are released to the environment during the process of tyre wear and manufacture.

The content of PCA/PAH need to be controlled to ensure that the product does not damage the environment. ELASTO SUPREME is a treated residual aromatic extract (TRAЕ) type product which has been designed to prevent damage to the environment and at the same time contribute to the high end performance of modern automobile tyre and Styrene Butadiene Rubber (SBR).

### PHYSICO-CHEMICAL PROPERTIES

PROPERTIES	Method	Typical Values
Colour (ASTM)	D 1500	8
Density @ 15°C, g/cc	D 1298	0.90-0.96
Refractive Index @ 20°C	D 1218	1.5312
Flash Point, COC, °C	D 92	250-350
Pour Point, °C	D 97	18-38
Kinematic Viscosity, Cst	D 445	
40 °C		700-1206
100 °C		25-31
Sulphur, % wt.	D 4294	2.56-3.13
Carbon type Analysis	D 2140	
Ca		15-30
Cn		20-30
Cp		40-65
Refractivity Intercept		1.061
Viscosity Gravity Constant	D 2501	0.8598
Aniline Point, °C	D 611	84-94
Evaporation Loss, 22 hrs, 107 °C , % wt	D 972	<0.1
Noack Volatility, % wt.	D 5800	1.1
DMSO Extractables, % wt.	IP 346	3 Max
Glass Transition temperature		- 38 to -51
Polars, % wt.	D 2007	1.3
Aromatics, % wt.	D 2007	50
Saturates, % wt.	D 2007	48.7
As per EU Direction 2005/69/EC	Limit	Mg per Kg
Benzo(a) pyrene	<1 mg per Kg	0.158
Sum of 8 listed PAH	<10 mg per Kg	1.748