

HIGH PERFORMING PLASTICIZERS FOR AUTOMOTIVE HOSES

The demands on automotive elastomer components have never been higher. Smaller engines trying to generate more horsepower are operating at elevated temperatures and in harsher conditions. Hallstar products provide the superior functionality to meet the temperature, flexibility and oil resistance needs of critical elastomer hoses.

OIL COOLER HOSE—NITRILE RUBBER (NBR, HNBR)

Must be resistant to various grades of engine oil and operate under a wide range of temperatures

- Plasthall® 7050 – offers good oil resistance and low temperature properties
- Plasthall® DBEEA (226) – high performance monomeric for low temperature performance
- Paraplex® A-8000 – polymeric ester with excellent oil resistance and high temperature properties

TRANSMISSION COOLER HOSE—ACRYLIC RUBBER (AEM/ACM)

Requires oil/fuel resistance, carries transmission fluid and operates at a wide range of temperatures

- TP-759® – provides low temperature properties
- TegMeR 812® – provides both high and low temperature properties
- Paraplex® A-8000 – polymeric ester with excellent fluid resistance and permanence

TURBOCHARGER—AEM/ACM

Turbochargers operate at very high temperatures under severe conditions, but also need low temperature flexibility

- TP-759® – provides low temperature properties
- TegMeR® 812 – wide range of high and low temperature properties
- Paraplex® A-8000 – polymeric ester with excellent fluid resistance and permanence

HALLSTAR TP-SERIES PLASTICIZERS

TP-759®—compatible with AEM/ACM, NBR, HNBR and epichlorohydrin (ECO)

- High molecular weight, high polarity esters that exhibit low volatility for high temperature applications
- Retains low temperature flexibility characteristics when subjected to high heat and hydrocarbons
- Property retention after heat aging

TP-90B®—compatible with NBR, HNBR, CR and ECO

- Highly compatible plasticizer designed to provide maximum low temperature flexibility in NBR
- Used only in moderate concentrations (20-30 PHR), functions without significantly degrading physical properties
- Volatile, but very efficient

TP-95®—compatible with AEM/ACM, NBR, CR and ECO

- Low volatility, general purpose plasticizer effective over a broad temperature range with excellent efficiency
- Acceptable under FDA CFR177.2600 (within migration limitation)
- Molecular weight and polarity is between TP-759® and TP-90B®



LET'S WORK WONDERS™