

# ESP HS Series



We make small parts a big part of your bottom line



# Tier IV solutions to move air and coolant

ESP International's HS Series provides high quality, cost effective silicone to meet the challenges of increased compartmental temperature of Off Road and Heavy Duty diesel markets.

## Silicone Heater Hose

- SAE J20R Compliant
- Utilized in coolant systems
- Aramid reinforcement is an option



## Silicone Knit Hose Process

SAE J20R4 compliant designed with Aramid reinforcement for elevated high temp and ambient compartmental temps. Also, Design may be suitable for Turbo applications



## High Temperature Turbo Hump

Hot side turbo and coolant



## Dual Purpose Silicone Hump Hose

Cold side turbo and coolant



## Straight Hose Fabrication

Complies with SAE J20R1 and Aramid design will comply with SAE J20R1 HT, and SAE J2140 Air Aspiration Spec.



The Society of Automotive Engineers, "SAE", provides the global compliance required to complement the Engine and Transportation markets.

- SAE J20 R1 – 4 Ply coolant hose in every configuration
- SAE J20 R2 – Wire embedded construction in 2,3, and 4 ply reinforcement
- SAE J20 R3 – Extruded 1 ply silicone heater hose, with Knit or Braided reinforcement
- SAE J20 R4 – Extruded Knit design, normal service requirements
- SAE J2140 – Air Induction Specification

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Fluorocarbon lined hoses are designed to resist aromatic and aliphatic hydrocarbons as well as alcohols, water, and fuel additives.

The fluorocarbon elastomer provides an excellent barrier to hydrocarbons and a volume swell of less than 5% in diesel fuel.

The design offers an excellent chemical bond between the Fluorocarbon liner and the silicone rubber composite structure.

The continuous operating temperature is 235°C or 455°F, and the low temperature brittleness point is -43°C or -45°F.

The combination of Aramid fabric, silicone rubber and the Fluorocarbon liner, provides excellent performance and enhanced features for the new generation of EPA compliant Truck and diesel engine hoses.



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