PRODUCTS

# Formed Hoses

**RL Hudson is a major supplier of formed hoses to some of the world's leading original equipment manufacturers. Hoses may look simple, but there are many things to consider when designing a hose for a specific application. Our engineers work with our customers, factories, and material development and quality teams to ensure that all hoses meet or exceed specifications.**

**CONSTRUCTION** Formed hoses are generally composed of multiple layers. The innermost layer, or tube, is typically made of homogeneous rubber. The critical function of the tube is to chemically and thermally resist the media being conveyed. The tube may require fabric or wire reinforcement, which is the second layer of most hoses. The outermost layer is the cover. The cover's main functions are to protect the tube, provide reinforcement, and resist deterioration.

**MATERIALS** Material selection depends on the function of the hose. RL Hudson can design custom hoses for specialized applications, or manufacture hoses to SAE J20 and J30 specifications. Materials commonly used in hose manufacturing include Ethylene-Propylene (EPDM), Fluoroelastomer (FKM), Nitrile (NBR), Chloroprene (CR), Epichlorohydrin (ECO), Chlorosulfonated Polyethylene (CSM) and Silicone (VMQ).

**Formed Hoses from RL Hudson Include:**

- Air Conditioning
- Air Induction
- CARB / EPA
- Fuel
- Oil
- Radiator (Coolant)
- Steam
- Water

**MANUFACTURING** A formed hose starts as an extruded tube. As the tube moves along a production line, reinforcement and additional rubber layers are added. The hose is then cut to length and fitted onto a mandrel that will dictate its final shape. The mandrel and hose are placed in an autoclave to cure the rubber. Once the rubber is cured, the hose is removed from the mandrel and trimmed to its final length.

**LET US HELP** RL Hudson designs and supplies a broad range of formed hoses. We also supply molded and wrapped hoses. Our highly skilled engineering team will work with you to develop the hose that fits your application and budget. Let us help you get the right hose for your next project.