

# SILICONE HOSE INFORMATION

## ABOUT SILICONE HOSE

Northern Silicone Hoses are manufactured using only certified and graded Silicone, Polyester, Nomex, Aramid and Stainless Steel materials. The finished goods are manufactured and tested to meet and exceed **ASTM\*\*** and **SAE\*** testing methods and results.

\*SAE = Society of automotive engineers.

\*\*ASTM = American Standard testing method.

We manufacture silicone hoses for a variety of tasks. Some manage coolant flow, some cold air intake and some hot compressed air. All these hoses use different material combinations to meet the challenge required.

## CHARGE AIR COOLER HOSE

Our 500° F charge air cooler hose operates with compressed air temperatures ranging from -76° F to 500° F. For these difficult conditions we use Nomex/Aramid reinforcement and silicone rubber grade TSE 2267A which exceeds the requirements for high temp oil resistant silicone SAE designation of class A. We use 4 layers of Nomex as a combination of Aramid/Nomex reinforcement to meet or exceed the temperature and burst strength requirements of this type of charge air cooler hose.

For certain types of charge air cooler hose we add stainless steel reinforcing rings to avoid hose ballooning and prevent hose blow off.

Northern silicone turbo charger hoses are available in both straight and shaped configurations.

For our liquid carrying silicone hose we use a 0.5mm thick fluoro-silicone hose liner to prevent hose erosion and substantially increase hose life. These hoses may be reinforced with 3 or more layers of Polyester, Nomex, Fiberglass or combinations of these materials to handle the coolant pressure, prevent fatigue, and increase hose life.



## SILICONE HUMP HOSE

Northern Silicone "HUMP HOSES" are designed for air or coolant flow in areas subject to misalignments, vibration or transition. These hoses are designed to operate in environments of -127° F to +380° F and are manufactured with either 3 or 4 plies of heavy polyester reinforcement. Northern Hump Hoses are ideally suited for mining and construction equipment, stationary engines, farm equipment, passenger vehicles, Hot Rods, and other industrial applications.

## NORTHERN SILICONE STICK RADIATOR HOSE

Manufactured to exceed SAE 20R4 specifications, Northern 3 layer, reinforced silicone stick radiator hose means high-tech construction and cut to length accuracy. Designed for difficult environments of -100° F to +380° F, these radiator hoses are engineered for today's high coolant temperatures and high pressure cooling systems.