

#### General Discussion

There are several different constructions available for the Firestone air spring. Within this document we will discuss the various combinations and the pros and cons of each selection.

#### Every standard air spring consists of 4 layers.

- The inner layer which actually contains the air.
- The first layer of fabric reinforced rubber applied at a specific angle.
- The second layer of fabric reinforced rubber which is laid to a specific angle to the first layer.
- The cover to protect the bias fabric plies.

The various construction possibilities are as follows:

1	Inner: Firestone Neoprene Bias Fabric Plies: Natural Rubber Cover: Natural Rubber  Standard configuration Temperature rating from -37° to 57°C
2	Inner: Natural Rubber Bias Fabric Plies: Natural Rubber Cover: Natural Rubber  Low Temperature configuration Temperature rating from -53° to 57°C
3	Inner: Firestone Neoprene Bias Fabric Plies: Firestone Neoprene Cover: Firestone Neoprene  High Temperature operations Temperature rating from -37° to 74°C <b>Fair oil resistance</b>
4	Inner: Epichlorohydrin Bias Fabric Plies: Epichlorohydrin Cover: Epichlorohydrin  Ultra High Temperature operations Temperature rating from -17° to 107°C <b>Good oil resistance</b>

Firestone neoprene is a blend of neoprene and natural rubber. Firestone is now working toward utilizing 100% neoprene to increase the temperature rating.