

TIRE TERMINOLOGY

All ABI tires are clearly marked with the following information: Alaskan Bushwheel™ Inc., size, load rating, speed rating, Part number, serial number, plant code, ply rating, and TSO marking.

Ply Rating: The term "ply rating" is used to indicate an index to the load rating of the tire.

Tires used to be made with cotton cording and the ply rating referred to the actual number of plies in the carcass. But with the development of higher strength fibers such as nylon and Kevlar®, fewer plies are needed to achieve the equivalent strength. Therefore, 'ply rating' has been replaced to mean an index of carcass strength or a load carrying capacity.

Load Rating: This is the MAXIMUM allowable load that the tire can carry at a specific inflation pressure.

Rated Pressure: Rated pressure is the MAXIMUM inflation pressure to match the load rating.

Aircraft tire pressures are given for an unloaded tire. When the rated load is applied to the tire, the pressure increases by 4% as a result of a reduction in air volume.

Serial Number Codes: All serials consist of alpha-numeric characters.

Example: ATR0403123

ATR – refers to manufacturer

04 – Refers to the year of production

03 – Refers to the month of production

123 – Refers to the tire ID

Bias Ply Tire

The main plies or cords run across the bead.

Radial Tire

The plies or cords run from one bead to the other at right angles to both beads.

Bias and Radial Aircraft Tire Guidelines

Radial aircraft tires may exhibit different characteristics than bias aircraft tires when operated under similar conditions.