



Pneumatic Tires

ARC, the Best Kept Secret in Efficiency!

Using pneumatic tires for wind tunnel testing, allows a replication of **real world tire deformation** and its effect on aerodynamic forces. Pneumatic tires allow for a realistic contact patch and sidewall shape when moving through camber curves.

For NASCAR testing the wheel used is the AERO 15x9.5 and includes dummy wheel nuts and studs. Each **tire is corner specific**, with different widths and with conicity for maximum shape accuracy. Each tire used is selected from stock, based upon the desired loaded radius.

Dynamic tire profiles can be varied by customer requirements by changing:

- Tires of a different diameter
- Inflation pressure
- Corner weight
- Tire insert profiles
- Static camber & Camber curves

Currently, ARC is only offering the pneumatic tires for lease at the ARC Indianapolis facility. Contact ARC for other vehicle tire applications.