

CUSTOM MOLDED SEALS & WIPERS

PTFE SEAL COMPOUNDS FOR CENTRAL TIRE INFLATION

Get Better Fuel Mileage and Reduce Costs

The seal you use for central tire inflation can impact the bottom line

The demand for better fuel mileage requires reduced friction and torque to rotate in all assemblies including seals. Therefore in the case of central tire inflation assemblies, Vanseal recommends using a seal that relies on inert, low-friction materials, such as PTFE, to increase efficiency.

Using the wrong compound is at the root of many system failures

Seals made from rubber-exclusive compounds won't stand up to the intense pressure and heat commonly found in drivetrain assemblies used in over-the-road and commercial truck applications. If you're experiencing any of these issues, PTFE rubber energized seals may be your solution:

- Reduced rotational torque
- Excessive vibration and harmonics
- External oil leakage
- Failure in dry running environments
- Frictional heat transfer to adjacent components
- Less than 500,000 miles in seal durability
- High dynamic eccentricities
- Extreme contamination from external environmental materials
- Any previous seal failures

PTFE seals are designed to remain cool, reduce energy consumption, and last the life of the assembly

Correctly made seals for central tire inflation can lower off-highway and commercial truck operating costs by saving energy and reducing fuel consumption.

Vanseal is a trusted TS 16949 and ISO-certified manufacturer of drivetrain and cooling system seals for over-the-road trucks, delivery trucks, and buses. Vanseal has consistently supplied reliable seals for major automotive manufacturers in applications including:

- Differential input and output pinion seals
- Axle trunnion seals to retain gear and bearing lubricant
- Wheel end and hub seals that seal air or create vacuum for central tire inflation systems or vacuum hub locks
- Tube-end seals to exclude contaminants
- Transmission input and output shaft seals
- Oil seals to protect bearings, help retain lubricants and liquids, provide a barrier to contaminants and separate dissimilar fluids or gasses
- Drivetrain low friction seals made from PTFE compounds

Vanseal designed components also cover minor imperfections with a molded nitrile surface, provide a secure fit and prevent spinning or walking in cold conditions.

IDEAL APPLICATIONS FOR PTFE SEALS:

- Electric water and fuel pumps
- Air conditioning
- Fans
- Turbochargers
- Superchargers
- Crankcases
- Drivetrains
- Central tire inflation
- Generators & compressors



Founded 1956
Vandalia, Illinois

Vanseal is a premier designer and manufacturer of radial lip and hydraulic rubber seals and mechanical seal components.

We generally serve customers in the automotive, commercial, off-highway, agricultural, fluid power, recreational vehicle and aerospace industries.



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