

Tire Manufacturer Seeks Corrosion Control for Manufacturing Drives

One of the largest tire manufacturers in the world depends heavily on its variable frequency drives (VFD) to ensure its manufacturing process runs smoothly. It also relies on data centers to maintain operations. So, when the drives and computers at one of the primary plants in the southeast were experiencing failures, they worked with Purafil to come up with a solution.

To identify what was causing the computer failure in the data center, we placed copper and silver coupons in the data center and discovered G2 levels of corrosion on the copper and GX levels on the silver, with the worst contaminant being carbon disulfide (CS_2). CS_2 is an off gas that is released when rubber is heated at the plant, and it is highly corrosive. The VFDs on the manufacturing floor were also failing because of the CS_2 .

Purafil addressed the data center failures by installing a Corrosive Air (CA) unit for recirculation only. It was filled with Puracarb to help neutralize the CS_2 . To ensure optimal performance, the tire manufacturer also uses a Purafil OnGuard monitoring system.

