

Cleveland

Wheels & Brakes

Parker Hannifin Corporation

Aircraft Wheel & Brake

1160 Center Road, P.O. Box 158

Avon, Ohio 44011 USA

1-800-BRAKING (272-5464)

216-937-1272 • FAX 216-937-5409

SERVICE BULLETIN

STAINLESS STEEL BRAKE DISCS BEING OFFERED FOR USE WITH CLEVELAND WHEELS & BRAKES

Cleveland Wheels & Brakes has received many inquiries regarding the use of stainless steel brake discs. Development of our products includes extensive engineering testing to conditions established by the FAA to insure the integrity of the design and safety of those aboard any aircraft.

In the process of improving our products, we have tested brake discs made of various stainless steel alloys. Stainless steel has a thermal conductivity approximately 25 percent of carbon steel and will not absorb the same amount of heat generated during a stop. As a result, the brake linings are forced to bear an excessive amount of heat which results in an extremely decreased life. The heat causes the lining to become excessively carburized (burned) to the point of failure. Failure can occur without notice, resulting in a loss of braking performance and subsequent safe operation.

Laboratory test results have shown a lining life with stainless steel brake discs to be as low as one-tenth the life with steel discs, before failure.

This is an extremely hazardous and unsafe situation. Use of any stainless steel brake discs not authorized by Cleveland Wheels & Brakes will void all responsibilities, liabilities and warranties associated with our products.