

Aerospace Hard Chrome Replacement

The aerospace industry will need to consider alternative materials and coatings to replace hard chrome plating produced from the soon to outlawed chromic acid electroplating processes.

There is a technology ready alternative in NITRON CA from Wallwork Cambridge which is an alloy thin film coating comprising chromium and aluminium bound with nitrogen in an e-beam PVD process

Nitron CA is an extremely hard film with many key additional properties which when coupled up render the coating ideal for arduous aerospace applications

- 1) The innate high hot hardness and high temperature oxidation resistance makes Nitron CA ideal for components in the hot section of the aero-engine such as compressor blades/vanes and engine ring seals.



- 2) Nitron CA has a low coefficient of friction which when coupled with hardness and adhesion would enhance the performance of cylindrical roller thrust bearings. The lower sliding friction of the coated surface reduces the shear stresses in the slippage zones of these bearing systems – extending the life performance of these bearing systems



For further information contact **Ian Haggan**
Business Manager-Advanced Coatings , Wallwork Cambridge Ltd, Buckingham Business Park, Swavesey, Cambridge,
CB24 4UG. United Kingdom

Office Phone : +44 1954-233700
Mobile Phone : +44 7976-390322