



Abrasive Technology's Dragon Shield ATA6C Wear Coating is an electroplated composite coating system produced by electrodepositing a metallic matrix while co-depositing chromium carbide particles.

ATA6C delivers excellent wear resistance through its ability to form a protective oxide glaze at operating temperatures. This glaze acts as a natural lubricant, minimizing adhesive wear between contacting surfaces. While this oxide layer typically develops during operation, it can also be pre-formed through a dedicated heat treatment prior to component installation—ensuring wear protection is active from the moment the component goes into service.

APPLICATIONS: AEROSPACE, INDUSTRIAL GAS TURBINES, OIL & GAS

FEATURES & SPECIFICATIONS

- 30 - 40 wt% carbide content
- 0.08 - 0.130mm
- Coating thickness post machined, can be as plated from 0.01 - 0.300mm
- 45 HRC (450HV) hardness
- ~2µm Ra as plated
- Working temperature <1652°F (<900°C)
- Coating is 100% dense, non-porous
- None line of sight application
- Excellent chemical adhesion >25,000 psi
- Applicable to a variety of metal substrates
- Can be ground, lapped and vibro polished

QUALITY ASSURANCE & APPROVALS:

Abrasive Technology is committed to ensuring every item, from in-stock products to custom solutions, meets our high quality standards and our production partners:

- PRI - AS9100
- NADCAP
- General Electric
- Pratt & Whitney
- Rolls-Royce
- Blades Technology
- Leistriz
- MDS

