

ATA3C ABRASIVE COATING

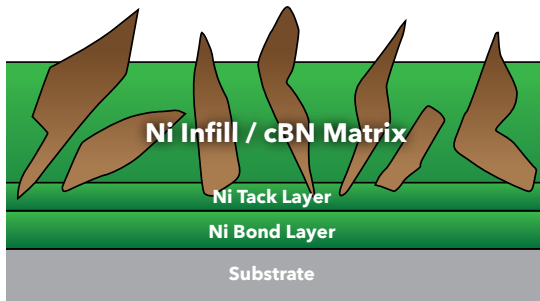


Fig 1. ATA3C as it is being formed

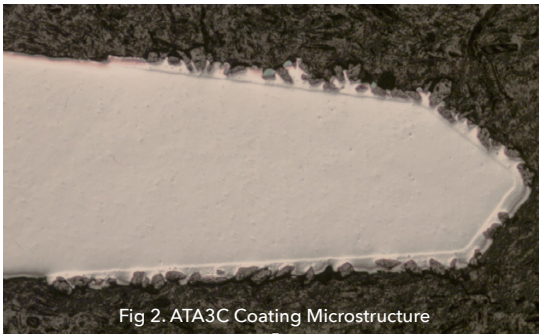


Fig 2. ATA3C Coating Microstructure

Abrasive Technology ATA3C coating is electroplated composites which are precisely applied using various techniques. The production of the coating involves electrodepositing a nickel whilst co-depositing abrasive particles. The cBN / ABN particles are lightly tacked to create a single abrasive layer which is then further encapsulated with nickel to secure the abrasive.

ATA3C coating is applied to a variety of gas turbine engine components. It acts as a cutting surface as part of an abradable seal system. These systems can improve both efficiency and operational safety of the engine.

APPLICATIONS: AEROSPACE, INDUSTRIAL GAS TURBINES

FEATURES & SPECIFICATIONS

- cBN 200 / 230 mesh encapsulated with nickel
- ABN 200 / 230 mesh encapsulated with nickel
- Versatile across a wide range of components
- Working temperature <1292°F (<700°C)
- Excellent chemical adhesion >25,000 psi
- Coatings are 100% dense, non-porous
- Excellent cutting behavior against opposing interfaces of both metal and ceramic substrates
- Can be applied to a variety of metal substrates (Ni, Ti, SS)

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 | • Rolls-Royce |
| • NADCAP | • Blades Technology |
| • General Electric | • Leistriz |
| • Pratt & Whitney | • MDS |

