



# AT 1661 - ALPHATEK NON-STICK BLADE

NANO-CERAMIC COATING

APPLICATION INSTRUCTIONS

## 1. PRODUCT DESCRIPTION

AT 1661 is a FDA compliant food safe non-stick coating suitable for use on cutting instruments and blades. AT 1661 reduces drag, keeps edges sharper longer and prevents corrosion without the need for oil. Treated blades work better for longer with less need for maintenance. AT 1661 is easy to apply and extremely durable. Surfaces may be easily re-coated when required.

## 2. SURFACE PREPARATION

- Intended surface should be clean and free from oils, dirt and any other previous contaminants.

## 3. APPLICATION

- As with any new material, always test application and finished properties on a low value test article or panel before working on valuable surfaces.
- One coat will provide necessary performance in the vast majority of applications.
- Coating may be applied by wipe-on (recommended) or dip method.
- **Wipe-On Method**
  - Apply coating with a dampened lint free cloth. Use a forward motion to cover the intended surface. Work the coating into the surface to fill all pores and scratches.
  - Use slight pressure to re-wipe the surface to be sure that there is a wet and glossy film on the surface.
  - Desired thickness is a dry film of 2-3 microns. **More is not better.** Do not wipe the surface dry as this may remove the thin film.
  - Be sure to coat the cutting edge but do so as not to be cut.
  - Allow coating to dry to the touch in ambient conditions.
- **Dip Method**
  - Smoothly dip the component in an appropriately sized container of the coating.
  - Leave immersed for a few seconds.
  - Smoothly remove the component and hang or lay out to dry.
  - Allow coating to dry to the touch in ambient conditions.
  - Absorb any excess from lowest drip point.



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## 7. DRYING & CURING TIMES

<b>Solids</b>	16%
<b>Drying Time</b>	Dry to the touch in approximately 5 minutes at ambient temperatures. Warmer airflow (not to exceed 110°F) will accelerate dry time. Coated blades may be handled after the coating is dry to the touch. Avoid abrasion and cutting until the blade is fully cured.
<b>Curing Time</b>	Full ambient cure will be obtained after 12 hours at room temperature. If necessary, use a warm airflow (not to exceed 110°F/43°C) to accelerate curing. Once fully cured, wash with soapy water, rinse and dry prior to putting in service.

## 8. COVERAGE RATE

- Coverage will be approximately 2,170 square feet per gallon (53 square meters per liter) at dry film thickness of 3 microns.

## 9. STORAGE STABILITY & SHELF LIFE

The shelf life is one year when stored in the original, unopened container. Store containers in a well-ventilated and covered area away from extreme heat and moisture. Contact your ALPHATEK representative if you have any questions about the products or its uses.

## 10. SAFETY

Refer to the Safety Data Sheet for this product prior to use.