

AT 1661 - ALPHATEK NON-STICK BLADE

NANO-CERAMIC COATING

TECHNICAL DATA SHEET

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.

Proudly manufactured in the USA.

Technical Data

Color	Clear
Viscosity	12 sec. #2 Zahn
Percent of Solids (%)	14
V.O.C	Exempt per CFR 51.1 / Regulation 8
RoHS	Compliant
REACH	Compliant
Halogens	None
Thermal Stability (cured)	1200°F (648.8°C)
Conical Bond (1/8" Mandrel) (ASTM D522-93a)	Passed
Cross Cut Adhesion (ASTM D3359)	5B
Coefficient of Friction (ASTM D2047)	0.03μ
Specific Gravity (ASTM D891-09)	0.889
Pencil Hardness (ASTM D3363)	8h
Odor (liquid)	Slight Solvent
Odor (cured)	None

Drying and Coverage Rate

Average Applied Dry Film Thickness	2 to 3 microns
Estimated Coverage Rate (@ 3 microns)	1,900 ft ² (175 m ²) per gallon
Dry to Touch Time (@ 77°F / 25°C) *Exposing to a warmer air flow (not exceeding 110°F) will reduce drying time	15 – 25 minutes (average)
Ambient Cure (Full Properties) *Exposing to a warmer air flow (not exceeding 110°F) will shorten cure time.	12+ hours
After Curing Process	Wash before use

Key Performance Properties

- Non-stick.
- Reduces drag.
- Keeps edges sharper for longer.
- Prevent corrosion without the need for oil.
- Easy clean.
- FDA compliant for food contact.
- Inert (benign) material once cured.
- Easy application by wipe or spray.
- May be re-coated as needed for long term performance.
- Cures under ambient conditions.
- Excellent adhesion. Creates a covalent bond to the substrate for long-term durability.
- Applies thin (2-3 micron dry film thickness).
- RoHS and REACH compliant.

Common Applications

- Cutlery
- Utility knives
- Exacto blades
- Industrial blades

Coated Blades

