



AT 1660 - ALPHATEK NON-STICK BAKEWARE

NANO-CERAMIC COATING

TECHNICAL DATA SHEET

AT 1660 is a FDA compliant food safe non-stick coating suitable for a wide range of cookware. Treated surfaces are exceptionally easy to clean without scrubbing or abrasive tools. AT 1660 also creates a more uniform thermal transfer for better cooking results. AT 1660 is easy to apply and extremely durable. Surfaces may be easily re-coated when required. AT 1660 cures under ambient conditions.

Proudly manufactured in the USA.

Technical Data

Color	Clear
Viscosity	12 sec. #2 Zahn
Percent of Solids (%)	12
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)	1,630 ft ² (150 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.
- Easy clean.
- FDA compliant for food contact.
- Inert (benign) material once cured.
- Uniform thermal transfer across the surface.
- 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

- Cookware
- Bakeware
- Mixing bowls
- Utensils
- Metal cooking racks
- BBQ components
- Griddle surfaces
- Cups & glasses
- Pyrex / Corning type bake ware
- Aluminum foil
- Fish hooks
- Sewing needles

Application Image

