AT 1620 - ALPHATEK NON-STICK

NANO-CERAMIC COATING

TECHNICAL DATA SHEET

AT 1620 is a FDA compliant base coat sealer for porous metal cooking surfaces (e.g. grills, wire screens, etc.). AT 1620 is generally used as a primer / sealer. Apply AT 1660 to create a non-stick surface. AT 1620 is easily applied and cures under ambient conditions. It has excellent adhesion and provides long-term performance. AT 1620 is inert (benign) material when cured. Cured coating is free from any harmful fumes.

Proudly manufactured in the USA.

Technical Data

Color	Clear
Viscosity	16 - 18 sec. #2 Zahn
Percent of Solids (%)	23
V.O.C	Exempt per CFR 51.1 / Regulation 8
RoHS	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)	7h+
Odor (liquid)	Slight Solvent
Odor (cured)	None

Drying and Coverage Rate

Average Applied Dry Film Thickness	5 to 15 microns
Estimated Coverage Rate (@ 10 microns)	940 ft² (87 m²) per gallon
Dry to Touch Time (@ 77°F / 25°C) *Exposing to a warmer air flow (not exceeding 110°F) will decrease drying time.	15 – 25 minutes (average)
Ambient Cure (Full Properties)	5 days
Cure Time (@350°F) *Coating must be dry to touch before subjecting to elevated temperatures.	30 – 40 minutes

Key Performance Properties

- High performance primer/sealer for cooking surfaces.
- FDA compliant for food contact.
- Excellent adhesion. Creates a covalent bond to the substrate and helps fill-in micro pores and seal corners.
- Inert (benign) material when cured. Cured coating is free from any harmful fumes.
- Applies thin (5 – 15 micron dry film thickness).
- Ambient cure.
- Easy to apply. Curable by ambient air (accelerated oven curing possible).
- RoHS and REACH compliant.

Common Applications

Primary use is as a base coat sealer before the application of AT 1660 or AT 1661 - Non-Stick Coatings. Perfect for porous surfaces or welded joints that need to be filled or sealed before applying a non-stick topcoat

- Wire screens
- Grilling surfaces
- Barbeque grills

Example: Treated vs. Untreated Grill

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