

AT 1671 - ALPHATEK NON-STICK INDUSTRIAL BLADE

NANO-CERAMIC COATING

TECHNICAL DATA SHEET

AT 1671 is a high performance, single component coating specifically designed to maximize the performance of cutting surfaces and blades. AT 1671 creates a thin ceramic barrier that reduces friction and improves cutting efficiency. Coated blades will resist the build up of glues and other adhesives keeping the cutting surface clean and effective. AT 1671 is easily applied by wipe in ambient conditions. Proudly manufactured in the USA.

Technical Data

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|--|------------------------------------|
| 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

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|--|---|
| Average Applied Dry Film Thickness | 2 to 3 microns |
| Estimated Coverage Rate (@ 3 microns) | 1,630 ft ² (40 m ² /Liter) per gallon |
| Dry to Touch Time (@ 77°F / 25°C) *Exposure to a warmer air flow (not exceeding 110°F) will accelerate drying times. | 15 – 25 minutes (average) |

Key Performance Properties

- Protects cutting edges from erosion and corrosion, thereby reducing maintenance and downtime
- Resists build-up of glues and other adhesive type materials
- Reduces friction resulting in more efficient cutting performance
- Increase usable life of cutting equipment
- Creates a covalent bond to the substrate giving it an intrinsic bond to the cutting blade for maximum long term durability
- Contains no "free silicones" to contaminate finished products
- Works equally well on straight cutters or slitter wheel knives
- Clear finish
- Thin application
- Excellent coverage rate
- Easily applied by wiping
- Ambient cure, short dry time
- Environmentally friendly. VOC exempt.
- RoHS and REACH compliant

Common Applications

- Any type of industrial cutting blade, slitter, knife, razor, shear, etc.

Supplemental Information

AT 1670 is an excellent base sealer for used blades with rougher surfaces. AT 1670 will smooth out the cutting surfaces prior to the application of AT 1671. AT 1671 may be used with or without the base sealer.