



Nycote

LABORATORIES
CORPORATION



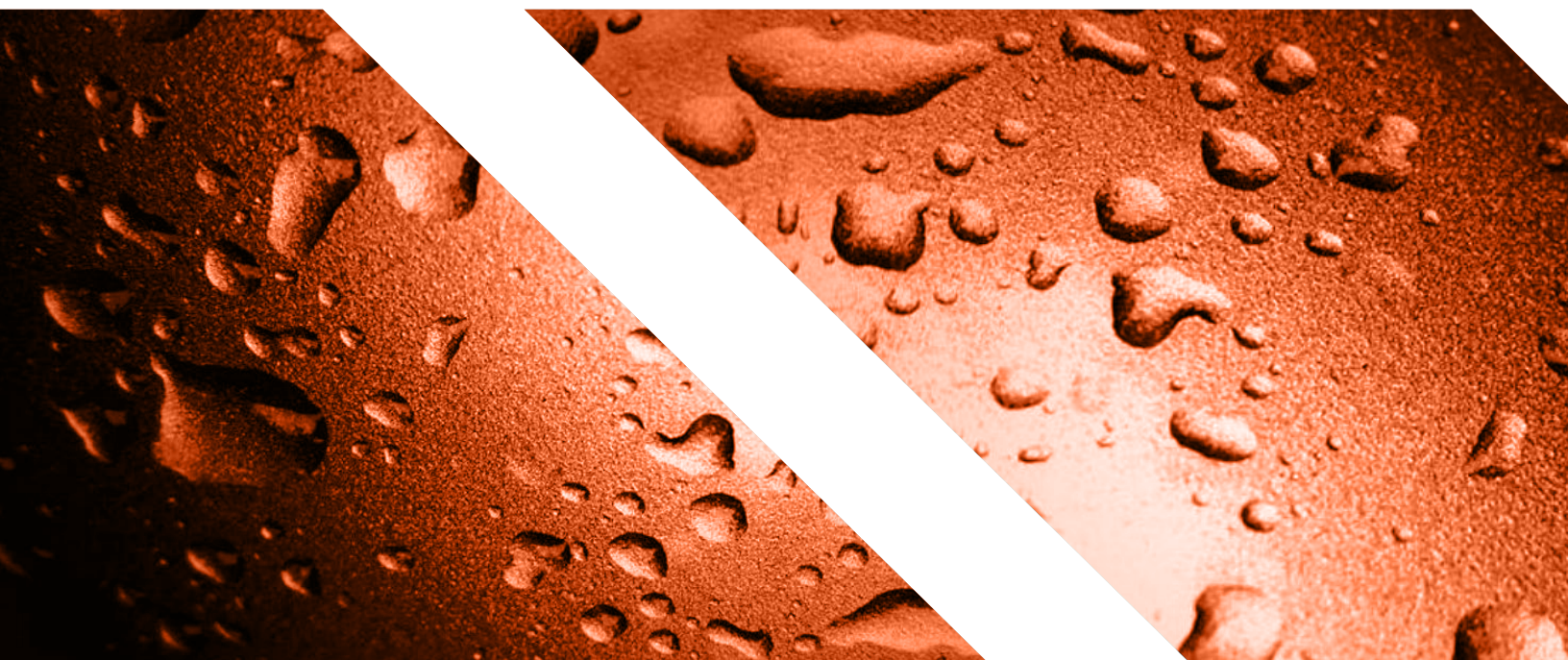
SURFACE TRACE™ 99 & 7-11

Nycote's Surface Trace™ 99 and 7-11 surface coatings are formulated with proprietary technology, using an optical fingerprint additive, for performance enhancements providing fuller traceability, tamper resistance, product authentication, and more.

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Nycote

LABORATORIES
A DIVISION OF PENN
s of nylon protective
CORPORATION
ENGINEERING COMPONENTS
coatings for industrial

ABOUT
NYCOTE®



ABOUT NYCOTE® LABORATORIES

Nycote® Laboratories Corporation is the only global advanced surface-coating manufacturer that can deliver unrivaled material performance protection for mission-critical systems to the aerospace, automotive, and railway industries, among others. Through a highly cross-linked hybrid polymer process, Nycote produces clear, chrome-free, lightweight liquid coatings with the flexibility of nylon and the strength of epoxy. These coatings offer unprecedented protection capable of withstanding extreme environments by encapsulating and protecting industrial materials.

Trusted and approved for decades by Boeing, Airbus, Embraer and other OEMs worldwide, Nycote's surface coatings create a self-leveling, pinhole-free complex barrier against corrosion, friction and conductivity that can increase asset lifespan, enhance safety, and reduce maintenance costs. Its one-coat technology can be custom tinted and applied on a multitude of surfaces including fiberglass, carbon fiber, and fabric.

Located in Los Angeles since 1959, Nycote® Laboratories Corporation is proudly owned by a United States Veteran (VOSB), as well as a highly accomplished woman (WOSB). Nycote's advanced coating technology is manufactured to order, suitable for both OEM and MRO application, and is EU/ IATA/ REACH Compliant.



THE OPTICAL FINGER PRINT

WHAT IS AN OPTICAL FINGERPRINT?

Nycote proprietary technology allows formula performance enhancements by suspending additives uniformly and consistently in every batch of our surface coatings.

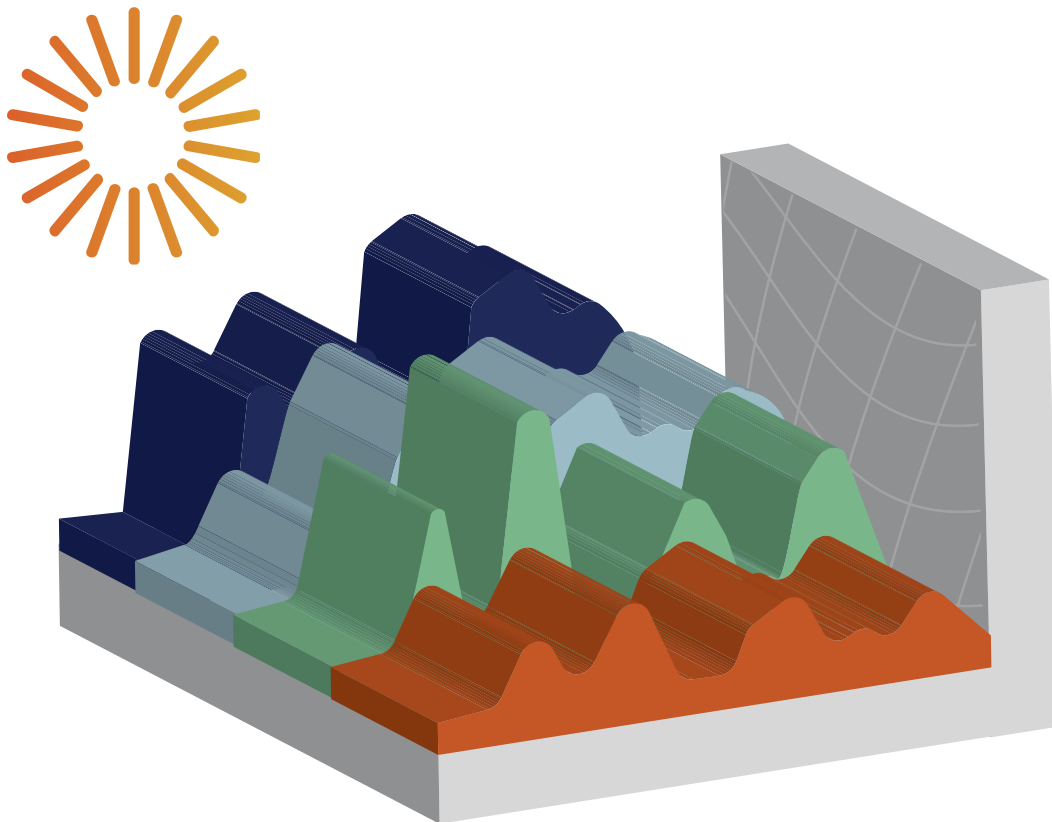
Through this process, we have successfully formulated the benefits of a tough flexible coating with an optical fingerprint additive.

Nycote's optical finger print additive, available in the Surface Trace 99 and 7-11 surface coatings, provide a secure, counterfeit-proof, and machine-readable formula. This formula now allows for fuller traceability, tamper resistant, and product authentication in the field. By implementing this innovative technology, Nycote's surface solutions offer even more performance advantages and higher standards for your surface coating needs.



HOW DOES IT WORK?

Inorganic tracers have been added to Nycote's Surface Trace 99 & 7-11 surface coatings with no visible impacts to the material. However, under proper lighting, these tracers are excited and emit wavelengths that are detectable through analysis with specific handheld equipment. With a quick scan, this invisible safety technology, creates traceability solutions throughout the entire supply chain providing even more protection to your products.





SURFACE TRACE™ 7-11

SURFACE TRACE 7-11

Surface Trace 7-11 is a highly cross-linked hybrid nylon polymer coating with an additive that is original and machine readable. The base coating system (Nycote 7-11) has been trusted by major industrial equipment manufacturers for decades. The formula was originally invented to keep parts and systems corrosion-free when exposed to hydraulic fluids, greases, fuels and harmful conditions keeping machinery clean and safe. The 7-11 formula was created to self-level over substrates providing a consistent film thickness and a complete nylon protective encapsulation. This next generation coating will now provide a way to trace parts and keep them counterfeit-proof whilst making their way through the supply chain.

Physical Properties	Resin	Film
Viscosity: @ 72°F Zahn #2 Cup	50-90 Seconds	n/a
Solids Content (non-vol.)	19%	n/a
Flash Point: C.O.C	70°F	n/a
Pounds Per Gallon @ 78° F	7.4±0.2 lb.	n/a
Shelf Life @75° F	Six Months	n/a
Film Thickness, 1 Dipcoat	n/a	0.5 mil
Coverage Per Gallon	300 sq. ft.	n/a
Tack-Free Time, 50% RH @ 70°F	n/a	One Hour
Film Pencil Hardness	n/a	3-H
Adhesion ASTM D4541-09 (pull-off stress)	n/a	1200 p.s.i. at temps of -70°F to +300°F (-57°C to +149°C).
Abrasion Resistance - (500 Gr. #17 wheel 100 cycles)	-	3.0 mgm
Adhesion to ASTM D3359-5B	-	0% affected at 180 pull

SURFACE TRACE™ 99



SURFACE TRACE 99

Surface Trace 99 is a highly cross-linked hybrid nylon polymer coating with an additive that is original and machine readable based upon Nycote Legacy technology and with updated chemicals known to be more user and environmentally friendly. The base coating system has been trusted by major industrial equipment manufacturers for decades. The formula was originally invented to keep parts and systems corrosion-free when exposed to hydraulic fluids, greases, fuels and harmful conditions keeping machinery clean and safe. The 99 formula was created to self-level over substrates providing a consistent film thickness and a complete nylon protective encapsulation. This next generation coating will now provide a way to trace parts and keep them counterfeit-proof whilst making their way through the supply chain.

Physical Properties	Resin	Film
Viscosity: @ 70°F Zahn #2 Cup	60-90 Seconds	n/a
Solids Content (non-vol.)	19%	n/a
Flash Point: C.O.C	70°F	n/a
Pounds Per Gallon @ 78° F	7.4±0.2 lb.	n/a
Shelf Life @75° F	Eight Months	n/a
Film Thickness, 1 Dipcoat	n/a	0.5 mil
Coverage Per Gallon	300 sq. ft.	n/a
Tack-Free/ Cure time, Full cure (can be forced by head)	n/a	1 hr. / 72 hrs.
Film Pencil Hardness	n/a	3-H
Adhesion ASTM D4541-09 (pull-off stress)	n/a	23+ lbs.
Abrasion Resistance - (500 Gr. #17 wheel 100 cycles)	-	3.0 mgm
Adhesion to ASTM D3359-5B	-	Result 0

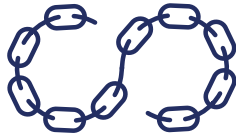


THE
SURFACE
TRACE™
ADVANTAGE

SURFACE TRACE™ ADVANTAGES



- Secure/counterfeit protection
- Security marking is permanent



- Quick check with sensors at any point in the supply chain



- New standards in digital supply chains and gets everywhere with its marking



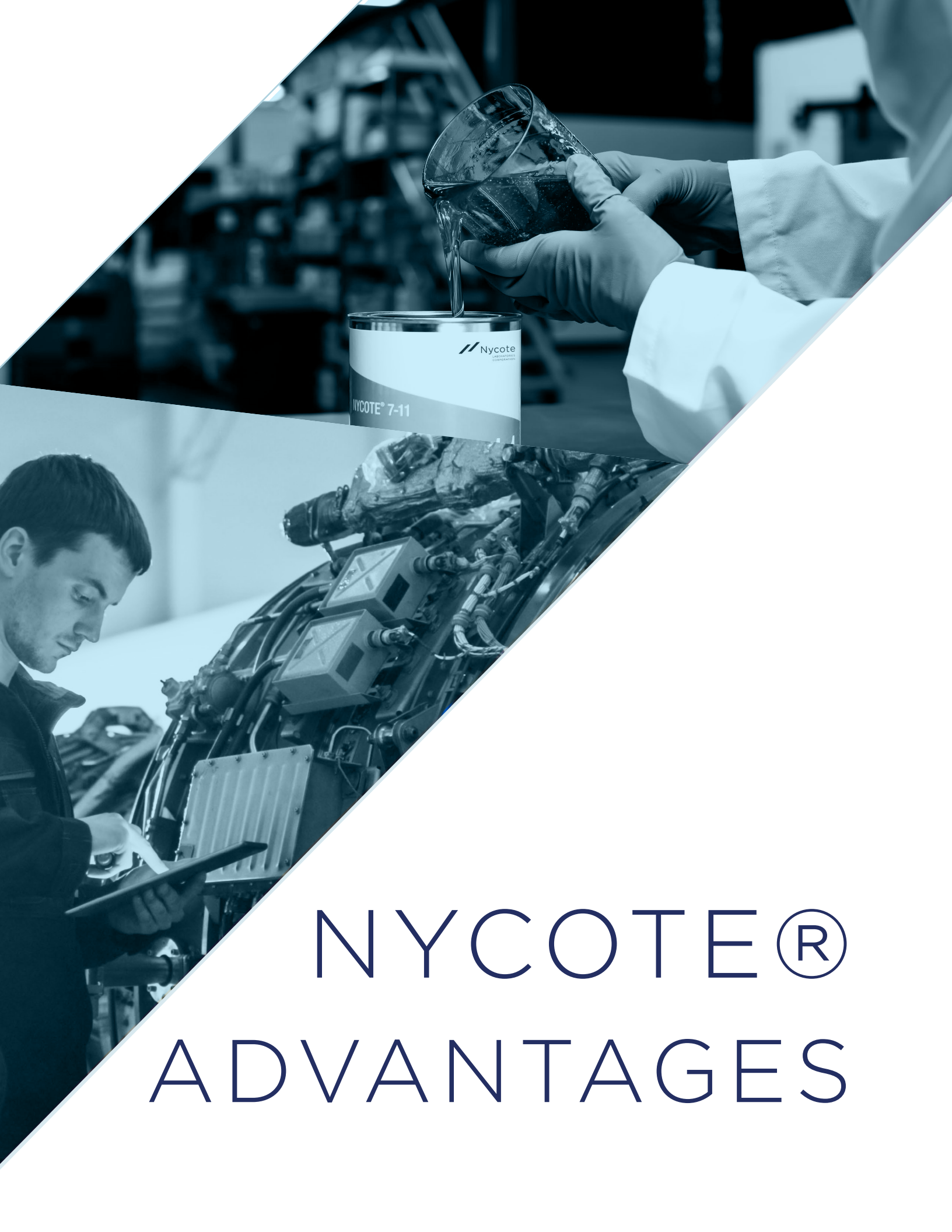
- Toxicologically harmless
- Heat resistant



- Usable in court



- Security and traceability data collected and processed by AI technology



NYCOTE® ADVANTAGES



SIGNIFICANT PERFORMANCE ADVANTAGES

- Clear lightweight hybrid nylon formulation for uniform coverage
- Reusable over shelf life
- Microbial corrosion protection
- Available in bulk or in custom applicators (2 OZ bottles)
- Self-leveling film technology for 100% encapsulation protection
- Single pass solution for easy application
- Nycote 7-11 & 99 meet the standards for out-gassing per ECSS-Q-ST-70-02
- Simple surface preparation for rapid application
- Custom tinting available
- Rapid global delivery (4-6 days lead time)
- Nysafe meets ASTM E595 NASA out gassing requirements
- Nycote 7-11 meets ISO 22196 International Organization for Standardization Method 22196 - the measurement of antibacterial activity on plastics and other non-porous surfaces
- Fungus Testing ASTM G21
- Single source protection against Skydrol, JP-4, JP-5, JP-8, JP-10, salt spray, oxidation, conductivity and other corrosive elements
- HCV-Virucidal efficacy of treated or impregnated surface



Nycote



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Nycote Laboratories operates an ISO 9001:2015 and AS9100D certified quality management system



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