



# The Perfect Print: Latent fingerprint processing with ductless chambers

Today legal cases are built on forensic science. Accurate, repeatable results solve crimes and prove innocence when necessary. Air Science® has a full line of evidence drying cabinets, fingerprint fuming chambers, ninhydrin / DFO chambers, and evidence benches to meet the needs of any size forensic laboratory.





## Fingerprint Science

Latent fingerprints are composed of several chemicals exuded through the pores in the fingertips including organic compounds like amino acids, glucose, lactic acid, and peptides, as well as inorganic chemicals like potassium, sodium, carbon trioxide and chlorine. Cyanoacrylate reacts with the traces of amino acids, fatty acids, and proteins in the latent fingerprint and the moisture in the air to produce a visible, sticky white material that forms along the ridges of the fingerprint. The result is an image of the entire latent fingerprint.

Cyanoacrylate fuming is the most accurate method of obtaining latent fingerprints on non-porous materials. Unfortunately, the method can be highly dependent on user-defined environmental settings and tends to waste a large quantity of cyanoacrylate.



## Latent Print Solutions

Safefume™ Cyanoacrylate Fuming Chambers are designed to safely develop latent fingerprints using ethyl cyanoacrylate (CNA) vapor in a controlled environment for optimum effectiveness and safety where moisture and fuming time are critical factors. The Safefume system controls all functions from start-to-finish, permitting the investigator to initiate an unattended automatic cycle, establish the proper fuming intensity and duration, and to return upon completion to collect results. The ductless filtration system requires no connection to an outside exhaust system.

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The Safefume chamber is a unique latent fingerprinting solution that guarantees accurate and repeatable results.

[airscience.com/safefume-fuming-chambers](http://airscience.com/safefume-fuming-chambers)



### CyanoPowder.

New specialty 'powdered glues' are available that offer important safety benefits and better third-level details over liquid glues.  
[www.cyanopowder.com](http://www.cyanopowder.com)

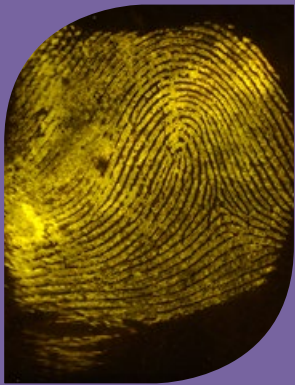






## Porous Print Solutions

Latent print processing on porous materials can be a challenge; however, Air Science provides solutions for this type of forensic work as well. Safedvelop™ Fingerprint Development Chambers are designed to accelerate the processing of latent fingerprints on porous surfaces using DFO, ninhydrin, and other development chemicals. The Safedvelop Fingerprint Development Chamber controls all functions, including development intensity and duration, while allowing investigators to start an unattended cycle and then return upon completion to collect results. The resulting prints will fluoresce with the use of various lasers and light sources.





Ductless hoods should be used to protect technicians when processing prints with liquid chemicals such as dyes and stains.

[Learn More](#)



## Fingerprint Dusting Solutions

Fingerprint processing does not always involve fuming processes and often will incorporate dusting for prints on various objects with fingerprint powders instead. DWS™ Downflow Workstations are high efficiency ductless fume hoods designed to protect the user and the environment from hazardous vapors and dust generated on the work surface. Unrestricted front and side access to the ductless workstation facilitates forensic processes that require complex and intensive operator involvement, while downward airflow in the chamber protects the operator.

The DWS Downflow Workstation is part of a line of filtered fume hoods based on the innovative Air Science Multiplex™ Filtration Technology that creates a safe work environment over the widest range of applications in the industry including forensic fingerprint powder.



## The Air Science Ductless Advantage

Forensic products by Air Science protect your personnel and the environment from toxic or volatile chemicals so that you can concentrate on what matters most: your work. Let us help you crack the case that provides closure, solve the crime that stops an ongoing offender, or provide the evidence to bring a criminal to justice.

Contact us today to obtain a quote or [visit our website](#) to download literature on any of our forensic products.



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