



Astute® Advanced  
Antithrombogenic Coating

The Astute® Advanced Antithrombogenic Coating has been developed specifically to enhance the biocompatibility of blood-contacting medical devices for indwelling applications.

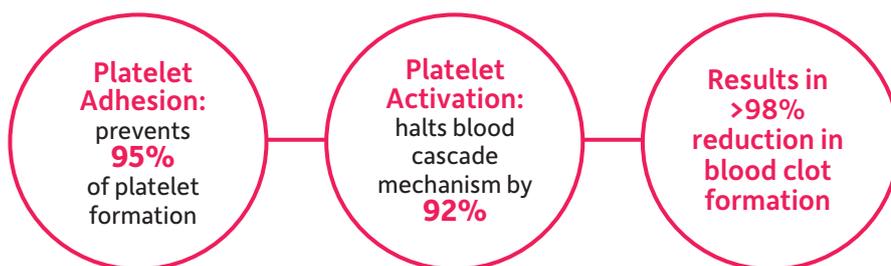
## What is Astute®?

Astute® Antithrombogenic Coating is a non-leaching coating that actively improves the haemocompatibility of a device surface by mimicking the natural endothelial layer. The coating has obtained clinical recognition for its safe and successful use on class 3 blood contacting medical devices for over 25 years. The multi-action technology confronts clot formation on devices to provide state-of-the-art biocompatibility and antithrombogenicity over long periods of time.

Astute® Antithrombogenic Coating contains an active component that interrupts the blood cascade mechanism, preventing platelets from activating and hinders thrombus formation (blood clotting). This ensures that blood remains inactive and does not clot further along in the patient. The coating combines this with passive non-thrombogenic elements to prevent deposition and adhesion on the device surface, enhancing the overall antithrombogenic efficacy. Astute® uses only non-leaching components, which reduces patient risk and helps the coating to continue performing without reduction in performance over time.

## Antithrombogenic Properties

Market-leading heparin activity on a wide variety of surfaces



### Non-leaching and stable under:

- Chemical stress
- Shear stress
- Retains efficacy in difficult situations

## Clinical Applications

Astute® Advanced Antithrombogenic Coating can be safely applied to a wide range of medical device surfaces including polymers, nitinol, stainless steel as well as woven & non-woven fabrics. The coating can be applied to a wide array of substrates as well as dimensions of medical components and devices with a range of tolerances and clearances.

### Clinical applications include:



Extracorporeal Oxygenators



Neurovascular Implants



PICC lines



Central Venous Catheters



Valve Replacements



Dialysis Systems



Coronary Stents

## Legacy Evaluation

Astute® Antithrombogenic Coating has been used for over 25 years on FDA-approved and CE marked medical devices without any recall, and has been tested to ISO standards including:

**CYTOTOXICITY:**  
ISO 10993-5

**IRRITATION:**  
ISO 10993-5

**SENSITISATION:**  
ISO 10993-10

**EO RESIDUAL:**  
ISO 10993-7

**HAEMOLYSIS:**  
ISO 10993-4

**CHEMICAL  
CHARACTERISATION:**  
ISO 10993-18