

HemoLAST™

ANTI-THROMBOGENIC COATING



HemoLAST™ coatings are

ANTI-THROMBOGENIC:

HemoLAST coatings prevent the formation of thrombi in vitro.

FLEXIBLE:

Heparin, hirudin, or any one of a number of anti-thrombogenic agents can be incorporated in HemoLAST.

AQUEOUS:

HemoLAST, as part of the LubriLAST™ family of coatings, contains no organic solvents. Safer and cleaner manufacturing processes are used and any concerns about residual solvents in a device are eliminated.

ADHERENT:

HemoLAST can be applied to virtually any biomaterial or device with no flaking or delamination.

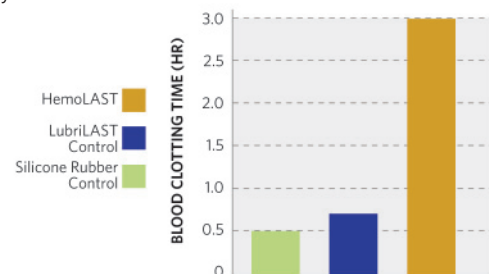
How does HemoLAST™ work?

HemoLAST™ is an anti-thrombogenic coating formulated on the LubriLAST water-based platform. It contains both releasable and covalently bonded anti-thrombogenic agents to provide short and long-term protection against thrombus formation. This is an especially beneficial characteristic for implanted devices. HemoLAST can deliver Heparin as well as other anti-thrombogenic agents such as proteins or peptides.



HemoLAST™ Clotting Study

Silicone rubber tubes (10in x i.d. 0.25in) had their lumens coated with HemoLAST or with hydrophilic control. Non heparinized human venous blood was circulated through the tubes (modified Chandler method). The reported clotting time was when the blood ceased to flow. After three hours, the observations were stopped. No anti-thrombotic agents were detectable in the blood, thus indicating that the coating maintained activity and did not leach the bioactive ingredients into the system.



PARTNERSHIP APPROACH

AST partners with its customers from beginning to end. Our customers have complete access to AST's considerable technical expertise throughout the device design and development process. By working with customers every step of the way, small design changes can be made early in the process that prevent huge delays and overruns late in the game. Along with the coating chemistries, a customized, easy-to-use process is developed under strict ISO 9001:2008 and ISO 13485 design control. Our partnership support does not end with the finalization of coating formulation or product design. We work with the customers to ensure smooth and trouble-free implementation at their or at AST's facilities. To accelerate the approval of new devices, AST's experienced staff continues to provide assistance throughout the regulatory approval process and product introduction.



9 Linnell Circle, Billerica, MA 01821
T: 978.667.4500 | F: 978.667.9778
www.astp.com