



Altius[®] ProActiv+[™]

Protecting the patient for the life of the catheter*.

Altius **ProActiv+** uses a non eluting covalently bonded antimicrobial that will protect your patient for the duration of the therapy.

Altius **ProActiv+** combines a non-thrombogenic (PEG) with an antimicrobial (PHMB) to provide superior antimicrobial effectiveness.

Altius **ProActiv+**'s unique covalent bonding ensures no systemic release into patient's bloodstream.

What is PHMB?

PolyHexaMethylene Biguanide

A fast acting, broad spectrum biocide effective at low concentrations against gram positive and gram negative bacteria, fungi and viruses.

Is it safe?

PHMB is used in many medical applications, such as wound irrigation, that require extremely biocompatible active ingredients providing a high level of efficacy.

PHMB's biocompatibility index is higher than chlorhexidine digluconate.

The Biocompatibility Index is the measurement of the antiseptic agent's antimicrobial properties and its relative cytotoxicity.

ProActiv+ has been independently tested according to ISO10993, an international standard test to evaluate the safety of any antimicrobial.

Is it effective?

ProActiv+ has been proven to be effective pre & post exposure to blood proteins against gram+ and gram- for a 30 day period.

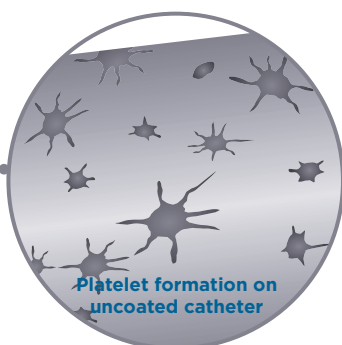
The patented chemical bonding ensures that ProActiv+ is non-eluting and there is no loss of protection for the life of the catheter.

*Altius ProActiv+ CVCs have been approved for up to 30 days use.

HOW DOES PROACTIV+ WORK?

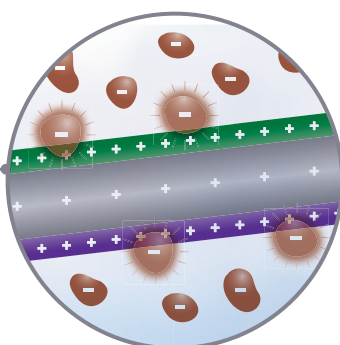
PHMB is co-polymerised with a non-thrombogenic PEG (polyethylene glycol) to prevent platelet adhesion, reducing the opportunity for bacterial growth

- Reduces biofilm formation
- Minimises fibrin sheath



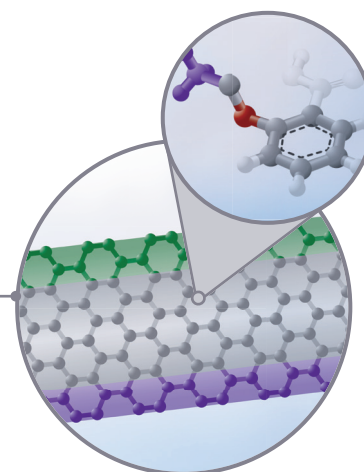
The positively charged antimicrobial bonding attracts and destroys bacteria which come into contact with the inside and outside of the catheter

- Polarised antimicrobial agent binds bacterium
- Binding induces separation of bacterial membrane
- Cell disruption exposes contents of the cell
- Bacterial cell death occurs



The patented non-eluting crosslinked covalent bonding ensures patient protection for the life of the catheter

- Non-eluting covalent bonding
- Sustained antimicrobial activity
- Lifelong protection



PRODUCT CODE	PRODUCT DESCRIPTION
K2CS220702	Altius Pro+ 2 lumen CVC set 7FR 20cm
K2CS215703	Altius Pro+ 3 lumen CVC set 7FR 15cm
K2CS220703	Altius Pro+ 3 lumen CVC set 7FR 20cm
K2CS215703P	Altius Pro+HP 3 lumen CVC set 7FR 15cm
K2CS220703P	Altius Pro+HP 3 lumen CVC set 7FR 20cm
K2CS215854	Altius Pro+ 4 lumen CVC set 8.5FR 15cm
K2CS220854	Altius Pro+ 4 lumen CVC set 8.5FR 20cm
K2CS215904P	Altius Pro+HP 4 lumen CVC set 9FR 15cm
K2CS220904P	Altius Pro+HP 4 lumen CVC set 9FR 20cm
K2CS230904P	Altius Pro+HP 4 lumen CVC set 9FR 30cm
K2CS215855	Altius Pro+ 5 lumen CVC set 8.5FR 15cm
K2CS220855	Altius Pro+ 5 lumen CVC set 8.5FR 20cm
K2CS215905P	Altius Pro+HP 5 lumen CVC set 9FR 15cm
K2CS220905P	Altius Pro+HP 5 lumen CVC set 9FR 20cm

For more information, pricing or samples speak to your local Kimal Representative or contact:

UK

Tel: +44 (0)845 437 9542
 Fax: +44 (0)845 437 9544
 Email: customerservices@kimal.co.uk

Germany

Tel: +49 (0)2133 285 141
 Fax: +49 (0)2133 285 1420
 Email: info@kimal.de

Middle East & Africa

Tel: +97 16 552 8146
 Fax: +97 16 552 8147
 Email: mea@kimal.co.uk

International

Tel: +44 (0)845 437 9543
 Fax: +44 (0)845 437 9544
 Email: internationalenquiries@kimal.co.uk

Clinical data on file.

© 2018 Kimal PLC. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from Kimal PLC.

Kimal PLC reserve the right to change the specification of its products at any time.
 Kimal PLC, Arundel Road, Uxbridge, UB8 2SA.

L-0155-0152-A2 | APRIL 2018

www.kimal.com

KIMAL
 delivering healthcare innovation