

# SYNICEM™

## POWER TO CEMENT AND SECURE



The SYNICEM Bone Cement Range



# SYNICEM™

## Perfect partner for your prosthesis fixation

SYNICEM bone cements are manufactured in-house under strictly controlled conditions using our proprietary process. Indicated for use in bone cementation and prosthesis fixation, they provide a tight mechanical fit between the irregular bone surface and the prosthesis. The SYNICEM bone cement range includes gentamicin-loaded cements for revision procedures in patients at high risk of infection due to gentamicin-sensitive bacteria and patients with compromised immunity.<sup>1,2</sup>

- ✓ High and low viscosities for flexible application and use
- ✓ Gentamicin-loaded options to support cases with high risk of infection
- ✓ Optimum working time and predictable performance
- ✓ Highest standards of quality assurance

## Reputation built on results

"I've used Biocomposites' products for many years and I have always been delighted with the quality of their products and the support of their local team in helping me treat my patients.

Dr. Nilen A. Shah, MS Ortho (Mum), MCh Ortho (UK)



# SYNICEM™

## High performance fixation in infected and non-infected cases

Developed to provide an ideal interface between prosthesis and bone, SYNICEM bone cements are optimised to provide secure and stable fixation for joint replacement surgery.

### High and low viscosities for flexible application and use

Choice of setting times and consistencies to suit individual applications or cases, allowing for high hold with manual placement or deep placement with a syringe or vacuum mixing application system.

### Gentamicin-loaded options to support cases with high risk of infection

Available preloaded with gentamicin to support cases in patients with compromised immunity or revision cases in patients with a high risk of infection.

## High viscosity cement



### SYNICEM 1

#### Presentation:

20g - 10ml REF 880018

40g - 20ml REF 880021

Specifically designed to optimise fixation between the irregular bone surface and the prosthesis.<sup>1</sup>

- ✓ Manual application
- ✓ Bone cementation and prosthesis fixation
- ✓ Easy-to-use dough with optimum working time



### SYNICEM 1G

#### Presentation:

20g - 10ml REF 880218  
(containing 250mg gentamicin)

40g - 20ml REF 880223  
(containing 500mg gentamicin)

Bone cement preloaded with gentamicin for when a broad spectrum antibiotic is required.

- ✓ Manual application
- ✓ Indicated for revision procedures and high-risk patients
- ✓ Easy-to-use dough with optimum working time

## Optimum working time and predictable performance

SYNICEM bone cements allow sufficient time to work into position with well characterised ambient temperature-dependent setting profiles.

## Highest standards of quality assurance from raw materials to finished product

Committed to the highest international certifications of quality, reliability and efficacy. End-to-end oversight of the design, development and manufacturing processes guarantees the highest quality at every stage.

## Low viscosity cement



### SYNICEM 3

#### Presentation:

40g - 20 ml      REF 880305

60g - 30ml      REF 880331

Low viscosity bone cement enables injection into bone to enhance fixation between the irregular bone surface and the prosthesis.<sup>1</sup>

- ✓ Syringe or vacuum mixing application system
- ✓ Bone cementation and prosthesis fixation
- ✓ Longer working time than high viscosity



### SYNICEM 3G

#### Presentation:

40g - 20ml      REF 880405  
(containing 500mg gentamicin)

60g - 30ml      REF 880433  
(containing 750mg gentamicin)

Bone cement preloaded with gentamicin for when a broad spectrum antibiotic is required.

- ✓ Syringe or vacuum mixing application system
- ✓ Indicated for revision procedures and high risk patients
- ✓ Longer working time than high viscosity

# Biocomposites®

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## Innovation is at the heart of what we do

Our innovative calcium compound and polymer products range from bone grafts to implants that aid in the treatment of infection. Possessing unique characteristics for regenerating bone and managing infected sites, our products are opening new possibilities for surgeons around the world.

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### STIMULAN®

A truly absorbable calcium sulfate antibiotic carrier for use in bone and soft tissue



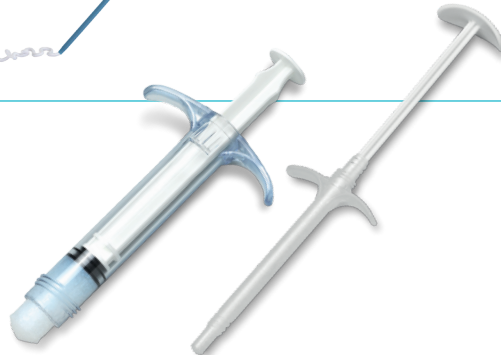
### genex®

An innovative, versatile calcium compound for promoting bone regeneration in osseous defects



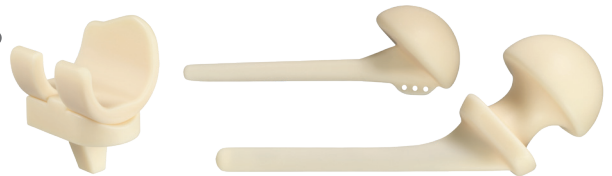
### NanoBone®

Next generation nanostructured bone graft substitute for remodelling bone grafts rapidly



### SYNICEM™ spacers

Antibiotic loaded preformed hip, knee and shoulder spacers to maintain space and aid treatment of infection



# The Biocomposites Companion

Your essential guide to making the most of SYNICEM bone cements, SYNICEM spacers and STIMULAN – all in one straightforward app.

- ✓ How to prepare: step-by-step videos
- ✓ Top tips: tried and tested advice for surgeons
- ✓ FAQs: common questions answered
- ✓ Product range: what's available

To download your  
Biocomposites Companion,  
simply scan the QR code.



1. Synimed, Surgical Cement Instruction for Use.
2. Synimed, Surgical Cement with gentamicin Instruction for Use.

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Patents granted: EP 1390086 B1, US 8632796, CN ZL02809194.9, US 8496955, GB2367552, EP 1204599 B1, US 6780391, EP 2594231 B1, US 8883063, CN ZL201210466117.X, GB2496710, EP 3058899 B1, US 10390954, US 10,588,748, CN ZL201610089710.5, EP 1 624 904 B1, US 8,715,744 B2, JP4764821B2, 284158, CA2537620C, RU2354408C2, ZL200480020915.3, DE 50 2004 002 554.4, ES2280969T3, AU 2004241740 B2, HK1080766A1, EP 3 600 464 B1, US 11,324,859 B2, JP7118132B2, CN110650754B, DE 50 2018 009 567.7, ES2917406T3, MX2019011659A, RU2768695C2, 386769, AU2018246310A1, BR112019020029A2, CA3058253A1

Patents pending: GB1502655.2, GB1704688.9, EP 18275044.8, US 15/933936, CN 108619579A

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- ✓ High and low viscosities for flexible application and use
- ✓ Gentamicin-loaded options to support cases with high risk of infection
- ✓ Optimum working time and predictable performance
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At Biocomposites, we are proud to be driving improved outcomes across a wide range of clinical applications for patients and surgeons. Our acquisition of Synergie Ingénierie Médicale S.A.R.L. (Synimed) strengthens our portfolio of pioneering products for use in bone and soft tissue infection. Based in Keele, UK, with global operations across Europe, USA, Canada, Argentina, China and India our products are now used in over 800,000 procedures every year and sold in more than 100 countries around the world.

Find out more at [biocomposites.com](https://biocomposites.com)

The SYNICEM bone cement range is manufactured by Synergie Ingénierie Médicale, S.A.R.L.