

stryker®

Craniomaxillofacial

# HydroSet vs. Norian

Which will you choose?



# HydroSet vs. Norian: The Facts



Attributes	HydroSet	Norian CRS	Norian CRS Fast Set Putty	Description
<b>Ideal Working Time</b>	3 min 45s <sup>1</sup>	2 min <sup>4</sup>	2 min <sup>5</sup>	HydroSet extends the working period, which gives users more time for sculpting/manipulating and cement application. <sup>7</sup>
<b>Set Time</b>	4 min <sup>1</sup>	10 min <sup>4</sup>	3 - 6 min <sup>5</sup>	HydroSet has a shorter set time than Norian CRS and Norian CRS Fast Set Putty.
<b>Wet Field Properties</b>	Sets in wet environment; no moisture control required <sup>2</sup>	Requires moisture control <sup>4</sup>	Requires moisture control <sup>5</sup>	HydroSet has a low tendency for washout <sup>2</sup> and it is designed to set exceptionally well in the presence of water, blood, and CSF; <sup>3</sup> it also allows saline drops to irrigate/wash out the surgery site even while setting. <sup>6</sup>
<b>Mixing Methodology</b>	Hand mixed <sup>1</sup>	Machine mixed <sup>4</sup>	Hand mixed <sup>5</sup>	HydroSet's hand mixing, in conjunction with the extended working time, offers users the time and ability to control the consistency (more/less viscous) of the cement. <sup>7,8</sup>
<b>Application Method</b>	Manual application or syringe injection <sup>1</sup>	Syringe injection only <sup>4</sup>	Manual application only <sup>5</sup>	HydroSet can be applied manually by hand/spatula or easily <sup>3</sup> injected through a syringe, which enables users to better meet unique closure needs.
<b>Manufacturing Company</b>	Stryker	Kensey Nash <sup>9</sup>	Kensey Nash <sup>9</sup>	HydroSet is manufactured and distributed by Stryker

Sources:

1. Stryker CMF HydroSet Injectable HA Bone Substitute Implantation Instructions.
2. Larsson: Injectable Phosphate Cements-A Review, 2006.
3. Hannink, Wolke, Schreurs, Buma: In Vivo Behavior of a Novel Injectable Calcium Phosphate Cement Compared With Two Other Commercially Available Calcium Phosphate Cements, 2007.
4. Norian CRS Technique Guide.
5. Norian CRS Fast Set Putty Technique Guide
6. Hess, Insley, and Murphy: Application properties and histological characteristics of injectable CaP bone substitutes, 2006.
7. Bohner, Marc: Design of Ceramic-Based Cements and Putties for Bone Graft Substitution, 2010.
8. Clarkin, O.M., Boyd, D., Madigan, S., and Towler, M.R.: Comparison of an Experimental Bone Cement with a Commercial Control, HydroSet, 2009.
9. PR Newswire: Kensey Nash Acquires Synthes' Norian Subsidiary.

A surgeon must always rely on his or her own professional clinical judgment when deciding whether to use a particular product when treating a particular patient. Stryker does not dispense medical advice and recommends that surgeons be trained in the use of any particular product before using it in surgery. The information presented is intended to demonstrate the breadth of Stryker product offerings. A surgeon must always refer to the package insert, product label and/or instructions for use before using any Stryker product. Products may not be available in all markets because product availability is subject to the regulatory and/or medical practices in individual markets. Please contact your Stryker representative if you have questions about the availability of Stryker products in your area.

Stryker Corporation or its divisions or other corporate affiliated entities own, use or have applied for the following trademarks or service marks: **Stryker**. All other trademarks are trademarks of their respective owners or holders.

Stryker Craniomaxillofacial  
Kalamazoo, MI 49002 USA  
t: 269 324 5346  
toll free: 800 962 6558  
f: 877 648 7114

[www.stryker.com](http://www.stryker.com)

Literature Number:  
9410-400-254 Rev. None  
UnDe/P.S.  
Copyright © 2011 Stryker  
Printed in USA