

TECHNICAL SHEET

Commercial name	Vancogenx HV		
Manufacturer's reference	12A2530		
Packaging	Powder: PE sachet inside an aluminium pouch. Liquid: amber glass phial inside a Tyvek-sealed PETG blister. Outer packaging: heavy cardboard box		
Sterilization – Shelf life	Powder: gamma rays; Phial: dry heat; Liquid: filtration. Phial blister: ethylene oxide. Shelf life: 5 years.		
Product description	High viscosity radiopaque bone cement with gentamicin and vancomycin for manual application.		
Composition	See table below		
Quality controls	Raw materials:chemico-physical and microbiological controls;check ofsupplier's certificatesEnd product:visual inspection, label's verification, chemical-physical andfunctional controls, sterilization certificate checkPackaging:visual and dimensional inspection, weld joint control, in-processcontrols.		
Configuration	1 powder sachet and 1 liquid phial		
M.D. classification	III according to CEE 93/42		
Intended use	Temporary fixation of antibiotic-loaded PMMA spacers to the host bone. Permanent fixation of revision joint prosthesis following a septic process to the host bone. In particular, these cements are indicated where there is the risk or presence of infections caused by organisms susceptible to gentamicin and/or vancomycin. The device is intended for use by suitable qualified orthopaedic surgeons, experienced in arthroplasty procedures, in an operating theatre environment.		
Latex content	The medical device and its packaging are latex-free		
Biocompatibility (ISO 10993)	Cytotoxicity, sensitization, intracutaneous reactivity, mutagenicity, acute systemic toxicity, sub-acute/sub-chronic toxicity, implantation.		
Warnings and storage conditions			



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	Temperatures of more and the environmen procedure. Lower tem Store at a temperature protect from light. Preparation and appli	 end of the IFU), considering that bone cements are sensitive to temperature. Temperatures of more than 23°C for the product, the preparation accessories and the environment accelerate the various stages in the preparation procedure. Lower temperatures retard the preparation stages. Store at a temperature below 25° C and a relative humidity not exceeding 70%, protect from light. Preparation and application of the device are strongly influenced by storage and operating room temperatures. 		
Disposal	Because of the volatility and flammability of the liquid monomer of the bone cement, the liquid monomer should be evaporated in a well ventilated hood or absorbed by an inert material and transferred into a suitable container for disposal. The polymer component may be disposed in an authorized waste facility.			
Release of chemicals	The device contains and releases gentamicin and vancomycin. Internal tests have been done showing that the monomer and barium sulphate release from the device is comparable to those of other commercial cements used for prosthesis fixation. No other substances able to modify the chemical equilibrium of surrounding tissues are released.			
Composition	Material			Percentage
Powder (40 g)	Polymethylmethacrylat			
	Barium sulphate	Barium sulphate		
	Benzoyl peroxide	Benzoyl peroxide		
	Gentamicin sulphate			4,20% w/w
	Vancomycin hydrochloride			2,50% w/w
Liquid (17,7 g)		Methylmethacrylate		
		N,N-dimethyl-p-toluidine		
	Hydroquinone			
Technical data				
	ISO 5833 limits	Tecres' specs		
Setting time (23°C)	< 15'	9'30" ± 2'00"	-	
Polymerization temperature	< 90°C	conforming	_	
Compression strength	> 70 MPa	conforming	-	
Flexural strength	> 50 MPa	conforming	-	
Elastic modulus	> 1800 MPa	conforming	-	

Release date: 22/11/2017



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Rev	Release date	Description
00	22/11/2017	New issue

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