

## **TECHNICAL SHEET**

## MENDEC CRANIO

Commercial name	Mendec Cranio	
Manufacturer's reference	1220/D	
Packaging	Powder: PE film sachet; Liquid: amber glass phial. S packaged in PVC blister sealed with Tyvek sheet. Outer packaging: heavy cardboard box	achet and phial are
Sterilization – Shelf life	Powder: ethylene oxide; phial: dry heat; liquid: filtration Shelf life: 3 years	
Product description	Radiopaque acrylic resin to be used in neurosurgery for the defects.	ne repairing of cranial
Composition	See table below	
Quality controls	Raw materials: chemico-physical and microbiological supplier's certificates  End product: visual inspection, label's verification, chefunctional controls, sterilization certificate check  Packaging: visual and dimensional inspection, weld join controls.	nemical-physical and
Configuration	1 powder sachet and 1 liquid phial	
M.D. classification	III according to CEE 93/42	
Intended use	Mendec Cranio is indicated for the repairing of cranial de	efects.
Latex content	The medical device and its packaging are latex-free	
Biocompatibility (ISO 10993)	Tests for cytotoxicity, intracutaneous reactivity, acut mutagenicity, sensitization, sub-chronic and sub-acu implantation done for acrylic cement	
Warnings and storage conditions	Do not arbitrarily change the liquid and solid component single-use and intended for use on a single patient. Avo product in two or more portions for use at different t temperature below 25 °C and protect from light. Sterility the packaging is not damaged or opened. Do not recomponents. Do not use the product if the powder appear if the liquid looks syrupy.	id the partition of the imes. Store at room is guaranteed only if sterilize any of the
Disposal	All wastes should be considered surgical material and such at the end of surgery.	must be disposed as
Release of chemicals	Internal tests have been done showing that the monomer Cranio is comparable to those of other commercial ceme	
Composition	<u>Material</u>	<u>Percentage</u>
Powder (20 g)	Polymethylmethacrylate	84,30 % w/w
	Barium sulphate	13,00 % w/w
	Benzoyl peroxide	2,70 % w/w
Liquid (6,65 g)	Methylmethacrylate	99,10 % w/w
	N,N-dimethyl-p-toluidine	0,90 % w/w



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Technical data		
	ISO 5833 limits*	Tecres' specs
Setting time (23°C)	< 15'	11'00" ± 2'00"
Polymerization temperature	< 90°C	conforming
Compression strength	> 70 MPa	conforming
Flexural strength	> 50 MPa	conforming
Elastic modulus	> 1800 MPa	conforming

<sup>\*</sup> since a standard for cranioplasty bone cements is not available, the ISO for bone cements for orthopaedic use is taken as a reference.

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