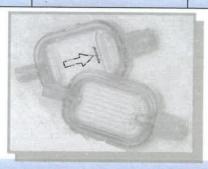


PRODUCT SPECIFICATION

Product PN RS065D

| Control | Cont

Epi-Max Epidural filter



	P	RC	D	U	CT	
D	ES	C	RI	PI	FIC	N

Epi-Max is a single use filtration device with an hydrophilic PES membrane 0.2µm and a reinforced MBS housing, particularly suitable for the following filtration applications: ampoule drug injection, epidural anesthesia, intraocular injectables, TPN solutions additives, low volume pain control, small volume sterilization, pharmacy admixture.

The connections are female luer lock inlet and rotating male luer lock outlet. The product is provided in bulk packs for further manufacturing, processing, or repackaging.

MATERIALS

			ATERIALI A <i>terial</i> s		
VERSIONE VERSION	CODICE ART. PART NUMBER	CORPO BODY	COPERCHIO COVER	INSERTO IDROFILICO HYDROPHILIC INSERT	GHIERA GIREVOLE REVOLVING L.L. NUT
EPICARE	RS065DCYRH002A02 RS065DCYRH012A02	compound, Clear G-20		PES 0,2 µm membrane PES 1,2 µm membrane	
	RS065DMEDH002A02			PES 0,2 µm membrane	Clear PP

Inlet/Outlet connectors: Female Luer Lock inlet / Male Rotating Luer Lock outlet_FLL/RMLL connectors dimensionally compliance with ISO 80369-7

PRODUCT CHARACTERISTICS

Dimensions: WxLxD 30x64,75x7.2 mm _dimensionally compliance with ISO 80369-7

Weight: 7 gr.

Hydrophilic filtration area: 5,00 cm2

Max burst pressure: 8 bar (tested for 15")

Max operating temperature: 55°C (131°F)

Minimum Water Bubble Point: PES $0.2 \mu m$: $3.7 \div 4.8 \text{ bar}$ PES $1.2 \mu m$: $0.7 \div 1.0 \text{ bar}$ Minimum Water Flow Rate:

PES 0.2 μ m : \geq 15 ml/min @ 80 cm (31.5 in) water head pressure PES 1.2 μ m : \geq 90 ml/min @ 80 cm (31.5 in) water head pressure

Bacterial Retention: Brevundimonas diminuta.

Priming volume: 1,2 ml

Pyrogenicity < 0.06 EU/ml using the LAL test method

Low binding test: performed with Piperacillin Sodium, Insulin, Paclitaxel, Lidocaine HCL, Nitro-glycerin, Sodium Citrate.

INSTRUCTIONS WARNINGS

For easy priming procedure, start with a dry EPI-MAX in a vertical position with the flow arrow pointed up, i.e. invert to prime. The liquid will push the air through the filter before flow begins. After priming is completed (all air is evacuated form the housing), EPI-MAX can stay in any position.

Filter for medical use, to be assembled in clean room.

Handle with care.

Remove the external bag before planting into a clean room.

Verify compatibility of drugs to use with the raw materials declared in specifications.

It is not recommended to use any kind of disinfectant in direct contact with the filter. For more details, please contact GVS. It is not recommended to use the filter with syringe smaller than 10 ml.

To prevent filter breakage it is recommended to fix properly Epi-Max in order to avoid benting of the filter connectors or filter body.



PRODUCT SPECIFICATION

Product PN	RS065	D	FIR&D RELEA		Mod. 984
Description	EPI-MAX	(Filter 0,2-1,2µm with neutral nut	FIRELEASED		Nev. 05
STERILIZATION	Ethylene o	xide (Max 55°C) and gamma irradiation (Max 25 kGy)			
BIOLOGICAL REQUIREMENTS	Test performance All material Chemical Cush - Cooresins).				
PACKAGING AND LABELLING	Box of 2.00 2 bags per The first ba The secon Each bag i	 ✓ Product description ✓ Product date ✓ Lot number (OL and 5 digit batch number to trace back to raw materials used) 			
CERTIFICATE OF COMPLIANCE	The conformity declaration is printed on every invoice and Certificate is according to UNI EN 10204 type 2.1 The Quality management system is in compliance with ISO 9001, ISO 13485 and ISO/TS 16949.				
DRAWING		The attached drawing is part of this material specification and must not be duplicated or made accessible to a third party without prior written GVS SpA permission.			
VISUAL REQUIREMENTS	Magnificati Illumination Light type:	eptance requirements apply when inspected under below conditions: ion: unaided eye, approximately 45 cm (18") from eye. n: 1000 ± 200 lx or equivalent Fluorescent sec per unit			
		Acceptance Requirement	AQL	Samplii	ng
	1	Embedded particles > 0.2 mm2 * (visual for 5" at a distance pf 300-450 i	mm) 0.4		
	2	Projecting threads from external and cone (burrs)	0.4		
	3	Incomplete plastic support (not functional)	0.4		
	4	Incomplete plastic support (functional)	0.1		
	5	Incomplete or misplaced membrane	0.1		
	6	Dents leaving traces, porosity, scratches	0.4	ISO 2859 pa	
	7	Plastics residual or internal membrane threads	0.4	General Inspection	
	8	Damages, cracks or deformation on the pieces (functional)	0.1		
	9	Damages, cracks or deformation on the pieces (not functional)	0.4		
	10	Bubbles > 0.7 mm ²	0.4		
	11	External pollution and wandering dirtiness > 0.05 mm	0.4		
	12	Incomplete or smudged pad printing.	0.4		
	Loose Part	ed Particulate Matter: according to Dirt Estimation Chart (Tappi Standa ticulate Matter: free of visible particles > 0,2 mm2 cteristics above listed are statistically inspected during the manufacturi	,		



PRODUCT SPECIFICATION

Product PN	RS065D	FIPRELIMINARY	
		FIR&D RELEASED	Mod. 984c
Description	EPI-MAX Filter 0,2-1,2µm with neutral nut	▼I RELEASED	Rev. 05

PERFORMANCE REQUIREMENTS

Acceptance Requirement			AQL	Sampling Plan
1	Bubble point to verify PES integrity $\begin{array}{c} \text{- 0.2 } \mu \text{m: } 3.7 \div 4,8 \text{ bar} \\ \text{(ramped pressure in 15 seconds)} \\ \text{- 1.2 } \mu \text{m: } 0.7 \div 1,0 \text{ bar} \end{array}$			ISO 2859 part. 1
3	Burst test to verify housing pressure integrity	≥ 8 bar (ramped 1 sec.)	0,1	General Inspection I
4	Water Flow rate @ 80 cm water head pressure	- 0.2 µm: ≥ 15 ml/min - 1.2 µm: ≥ 90 ml/min	0,1	-

Control Note:

Customers who want to clarify requirements where judgmental differences may develop between the Customer and GVS SpA may submit limit samples for GVS SpA approval. If limits have not been established and approved, best judgement by GVS SpA Quality Assurance will apply.

The characteristics above listed are statistically inspected during the manufacturing process.

This material specification describes the properties of product above indicated.

This document contains general requirements, material description, drawing references, defect specification, biological material requirements.

REVISIONS AND APPROVALS:

DATE	REV.	REASON FOR CHANGE	ISSUED AND CONTROLLED BY: (name /function and signature)	APPROVED BY: (name /function and signature)
24/09/2021	07	Introduction of compliance with ISO80369-7 for Luer connectors	Elsa Caruso – PM Elsa Cocuso	Barbara Finessi – AQP Enrico Salvarani – RPROG Luca Zahini – DAN Tiziana Landi – DAQ

Customer Approval:

We accept this	material specification as a part of the agr	eed terms of delivery
Company name	2	
Approved by:	(Name, Function)	(Signature)
Date		(Company stamp)

Please send back this document signed for approval. If we will not receive this specification signed, we consider the first order placed as implicit approval.