

Product P/N	6421/04	Mod. 984A
Description	Insufflation Filter	Rev. 06

6421/04

Insufflation Filter



PRODUCT DESCRIPTION	Inlet/Outlet Connectors: 22mm Male/15mm Female – 22mm Female/15mm Male ISO connector.
	Bidirectional Filter. Approx. dimensions: 61.5mm x 48.9mm x 48.9mm. Weight: 22g (approx.).
MANUFACTURER NAME	GVS Filter Technology UK NFC House Vickers Industrial Estate Mellishaw Lane, Morecambe Lancashire LA3 3EN - United Kingdom Information Tel. +44 (0) 1524 847600 e-mail: gvsuk@gvs.com
INTENDED USE /	To be used in conjunction with insufflators for intra-abdominal insufflation.
APPLICATION	
CLASS OF THE	Disposable medical device - Class IIa
PRODUCT	Rule 2 Annex IX 93/42 / EEC
	Rule 2 Annex VIII MDR 2017/745
MATERIALS	Filter media: Electrostatic Blended Synthetic Fibre with Polypropylene mesh and Glass Microfibre Media
	Frame/Housing Polymer: Clear Styrene - Butadiene Copolymer (SBC)
	Colour: Transparent Clear.
	Regulatory Documentation Required:
	- Biocompatibility according ISO 10993-1
	- ROHS
	- BSE/TSE
	- DEHP plasticizer Free and latex free - Aging
	- REACH



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	- Conflict minerals
PRODUCT CHARACTERISTICS	Appearance/Visual As shown on drawing.
	Physical/Mechanical Approx. dimensions: 61.5mm x 48.9mm x 48.9mm. Weight: 22gm (approx.). Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Female/15mm Male ISO. Operating temperature Range: N/A Storage temperature Range: 5 °C to 40 °C Bidirectional Filter.
	Biological Pyrogenicity: <0.3 EU/ml Biocompatibility to ISO10993 Category – Surface device Contact – Skin Contact Duration - <24hrs
	Functional Air Flow Rate: 301/min, 601/min, 901/min
	Filtration Efficiency: Filter Efficiency @ 30L/min using TSI 8130: Min. 99% (REP 0580/15 with Factor of Safety)
	Pressure Drop: Flow Resistance @ 30L/min in accordance with EN ISO 9360-1: Max. 1373Pa Flow Resistance @ 60L/min in accordance with EN ISO 9360-1: Max. 2918Pa Flow Resistance @ 90L/min in accordance with EN ISO 9360-1: Max. 4741Pa (REP 0533/15 with 10% Factor of Safety applied to Maximum)
	Internal Volume: 24ml (approx.)
	Operating Lifetime: Refer to Instructions for Use.
	Shelf Lifetime: 5 years from the date of manufacture.
	Bacterial Filtration Efficiency in accordance with ASTM F2101-07: Min. 99.999% (Staphylococcus aureus @ 30L /minute) REP: EXT846022-S01
	Viral Filtration Efficiency in accordance with ASTM F2101-07: Min.99.997 % (Bacteriophage @ 30L/ minute) REP: EXT846021-S01
	Cleanliness Device assembled within Class 8 Cleanroom.
	Testing Leakage: Furness Leak test @ 4.5 psi

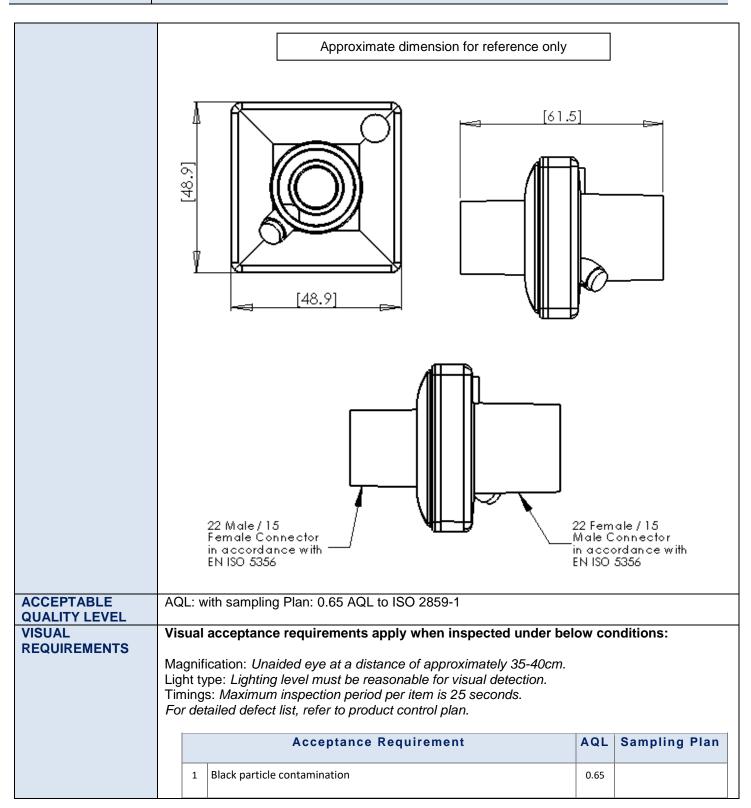


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	Other: ISO connector Test Rig (Rep. 0594/15)	

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INSTRUCTIONS / WARNINGS	Multi-language IFU available.	
PRODUCT SHELF LIFE	5 years from the date of manufacture. Expiration date and date of manufacture are detailed on the product labelling.	
STERILIZATION	Sterile version of product available (Ethylene oxide - Max 55°C)	
APPLICABLE STANDARDS AND REGULATIONS	Product Certification required: - CE mark - FDA	
	Applicable Standards and Technical Regulations: Biological evaluation of Medical Devices - Part 1: Evaluation and Testing - ISO 10993-1.	
	Medical devices- Application of risk management to medical devices - BS EN ISO 14971.	
	Medical devices – symbols to be used with medical device labels, labelling and information to be supplied - Part1: General requirements - ISO 15223-1.	
	Sterilization of health care products – Ethylene oxide sterilization – ISO 11135-1.	
	Sterilization of medical devices – Microbiological Methods – Part 1 : Estimation of population of Microorganisms on products – ISO 11737-1.	
PACKAGING AND LABELING	Number of pcs per bag is determined by the sales order. The first barcode label is applied to the outside of the bags. The second barcode label is applied onto the outside of the box. Each bag is labelled with the following traceability information: Quantity Product description Product Date Lot Number (OL and 5 digit batch number to trace back to raw materials used) Operator Code Different lots in one box are separately closed and separately labelled. Bulk products will be packed in double PE bags.	
CERTIFICATE OF COMPLIANCE	With each shipment, GVS UK Customer Service will send the CofC to the Customer, based on the lot numbers and date of manufacture. 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.	
DRAWING	The attached drawing is part of this product specification and must not be duplicated or made accessible to a third party without written permission from GVS Filter Technology UK Ltd.	



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Description	Insu	ffla	Rev. 06			
		2	Damaged/broken item	0.65		
		3	Blocked connector/luer	0.65	-	
		4	Weld marks	0.65	-	
		5	Short fill moulding	0.65		
		6	Rough surface or edges	0.65	-	
		7	Pronounced injection gate	0.65	ISO 2859 Part 1 General Inspection Level 1	
		8	Deformation/distortion	0.65	-	
		9	Crack	0.65	-	
	:	10	Oil/grease	0.65	-	
	:	11	Wrong colour	0.65	-	
	:	12	Weld fault	0.65	-	
GENERAL SAFETY	Spe	cia	Il characteristic: Product characteristic which can affect safety	y or co	mpliance with	
AND PERFORMANCE	regu	ılat	ions, fit, function, performance or subsequent processing of pr	oduct.		
REQUIREMENTS	Spe	Special Characteristic # 01:				
	Flow	Flow Resistance @ 30L/min in accordance with EN ISO 9360-1				
	Flow	Flow Resistance @ 60L/min in accordance with EN ISO 9360-1				
	Flow	Flow Resistance @ 90L/min in accordance with EN ISO 9360-1				
	Spe	Special Characteristic # 02: Filter Efficiency @ 30L/min using TSI 8130 in accordance with				
	EN 1	EN 13274-7.				
	Spe	cia	l Characteristic # 03: Bacterial Filtration Efficiency in accorda	ance w	ith ASTM F2101-07	
	Viral	l Fi	Itration Efficiency in accordance with ASTM F2101-07			

This material specification describes the properties of product above indicated. This document contains general requirements, material description, drawing references, defect specification, biological material requirements.



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REVISIONS AND APPROVALS:

DATE	REV.	REASON FOR CHANGE	ISSUED AND CONTROLLED BY: (NAME/FUNCTION/SIGNATURE)	APPROVED BY: (NAME/FUNCTION/SIGNATURE)
09/09/2021	2	Sterilization section updated.	Kinga Gawdzik – Engineering Support Technician	Andrew Pearce – Quality Manager

CUSTOMER APPROVAL:

We accept this	We accept this material specification as a part of the agreed terms of delivery.		
Company Nan	Company Name:		
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.