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Micro-Klean™ III Series

Premium Resin Bonded Filter Cartridges

Micro-Klean™ III — Better By Design

The Micro-Klean III cartridge manufacturing process produces a rigid, resin bonded, graded porosity structure that eliminates by-pass and the unloading characteristics of soft and easily deformable, competitive filter cartridges such as spiral wound, melt-blown and string wound cartridges. The design of Micro-Klean III cartridges provides a family of filter cartridges that offer distinct advantages:

- Consistent particle removal efficiencies with sharp cut-offs,
- Extended cartridge life,
- Ability to withstand high temperatures and elevated differential pressures,
- Broad chemical compatibility, and
- Consistent batch to batch filtration characteristics.

Construction

Micro-Klean III filter cartridges are the product of continuous refinement of manufacturing and fiber technologies. Available in both grooved and ungrooved versions, Micro-Klean III filters are ideal for a wide variety of applications. The grooving of the outer surface significantly increases the filter's effective surface area, and increases the contaminant holding capacity. The ungrooved version of the Micro-Klean III cartridge is excellent for the removal of gels and other deformable contaminants. To provide compatibility with a wide range of process fluids, Micro-Klean III cartridges are available in different combinations of fiber type and resin (see table 1).

Features & Benefits

Graded Porosity Design

- Low pressure drop and long life for consistent filtration performance

Rigid Resin Bonded Structure

- No by-pass or unloading with high pressure drops or pressure surges

Grooved Face

- Adds 47% more surface area than competitive ungrooved wound or wrapped cartridges for greater dirt loading capacity

Broad Chemical Compatibility

- For chemically aggressive applications

300°F Acrylic Cartridge Multi-length Option

- Ease of installation and removal in high temperature applications (Micro-Klean III High Temperature Cartridges only)

Broad Range of Ratings from 1 µm to 150 µm

- Wide range of effective applications

Disposal (Must comply with appropriate state and local regulations)

- No metal or plastic cores
- Shreddable
- Crushable
- Incinerable (8,000 btu/lb)

Environmental/Energy Advantage

- Formulation 8 Micro-Klean™ filters with porosity between 1 µm and 75 µm are made from greater than 20% recycled material by weight.

LEED® Claims: Use of this product (1 - 75 micron 8 formulations only) may

- Help comply with LEED® EB v3.0 Prerequisite 1: Sustainable Purchasing Policy
- Help contribute to LEED® EB v3.0 MR Credit 1: Sustainable Purchasing — Ongoing Consumables or LEED® EB v3.0 MR Credit 2: Sustainable Purchasing — Durable Goods



Applications*

Paints

Inks

Emulsions

Adhesives

Resins

Organic Solvents

Coolants

Lube Oils

Various Chemicals

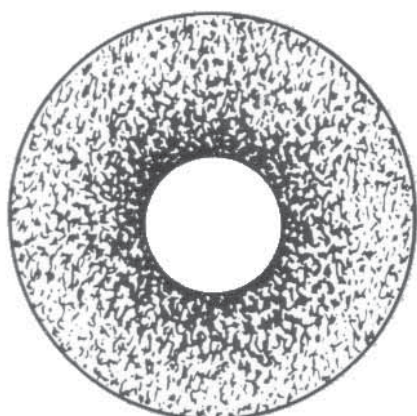
Pesticides

Fertilizers

General Manufacture Processes

* Micro-Klean III cartridges are not designed for and should not be used in Food and Beverage, and Pharmaceutical applications. Please contact 3M Purification for the appropriate filters for these applications.

3M



PICTURE 1
MICRO-KLEAN III CARTRIDGE
CROSS-SECTION SHOWING TRUE GRADED
POROSITY DESIGN

Table 1: Cartridge Formulations

Formulation	Fiber	Resin
2	Cellulose / Glass*	Melamine
	Cellulose	Melamine
3	Cellulose / Glass*	Phenolic
	Cellulose	Phenolic
8	Acrylic	Phenolic

*Available only as 3 micron rated cartridges

Operating Data

Table 2: Micro-Klean III Product Parameters

Operating Parameters	
Maximum Operating Temperature	Standard Formulation — 250°F (121°C) With Polyethylene Foam Flat Gasket — 200°F (93°C) With Polypropylene End Modifications — 180°F (82°C)
High Temperature Option	With or without Polyester End Modifications — 300°F (149°C)
Maximum Differential Pressure	70 psid (4.8 bar)
Recommended Change-out Differential Pressure	35 psid (2.4 bar)
Dimensions	
Length	9 3/4" to 40" (248 - 1016 mm)
Inside Diameter	1 1/16" (26.9 mm)
Outside Diameter	2 19/32" (65.9 mm)

Micro-Klean III High Temperature Cartridge option is recommended for non aqueous applications with operating temperatures from 180°F to 300°F. The high temperature cartridge is the standard acrylic fiber and phenolic resin formulation with multi-length bonding using a high temperature adhesive for durability in the installation and removal process. All high temperature o-ring end treatments will be polyester.

Cartridge Configurations

Standard Micro-Klean III filter cartridges are available in multiple lengths with or without various end treatments to fit your current housing (Table 2). Note that for applications with operating temperatures greater than 180°F, use the Micro-Klean III High Temperature Cartridge formulation.

Performance

Micro-Klean III products combine the principles of surface and depth filtration in one cartridge to provide enhanced filter service life, particle removal efficiency and optimum flow characteristics.

Enhanced Service Life

Laboratory testing and extensive field experience has shown that, compared to competitive products of equally reported retention ratings, Micro-Klean III cartridges can hold up to 2 or more times the contaminant by weight. The grooved face provides nearly 50% more surface area than ungrooved or wrapped cartridges for greater contaminant loading capacity. Additionally, the manufacturing process of Micro-Klean III Series filters creates significant void volume within the internal matrix to increase loading capacity.

Particle Removal Efficiency

Continuous, on-line, nondestructive testing during the manufacturing process provides consistent batch to batch cartridge performance. Micro-Klean III cartridges particle removal efficiencies provide a sharp cut-off and consistent particulate removal throughout the cartridge life as shown in Graph 1.

Turbidimetric Efficiency

Micro-Klean III cartridges exhibit a constant and uniform effluent turbidity for nearly 70% of their service life (Graph 2). Non-rigid filters, wound or melt blown, by comparison can exhibit erratic effluent turbidities as they load and unload, indicating by-pass.

Flow Characteristics

For sizing systems and calculating the operating pressure drop of Micro-Klean cartridges, use the following procedure to calculate the clean pressure drop of a Micro-Klean filtration system. Specific Pressure Drop (SPD), is defined as the pressure drop in psid across a 10" length filter element per gallon per minute (gpm) of flow rate of a 1 Cp fluid. (Flow can also be expressed in lpm, and pressure drop in mbar if desired). By knowing the Specific Pressure Drop of the filter media, the operating pressure drop of a filtration system can be quickly calculated by using the following formula:

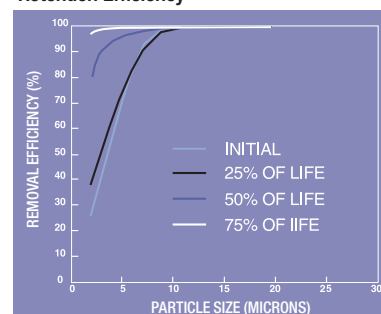
$$\text{Clean } \Delta p \text{ (psid (mbar))} = \frac{(\text{Total System Flow gpm [lpm]}) (\text{Viscosity in Cp}) (\text{SPD Value from table})}{(\text{Number of 10" Equivalent Single Length Cartridges in Housing})}$$

Table 2. - Specific Pressure Drop (SPD)

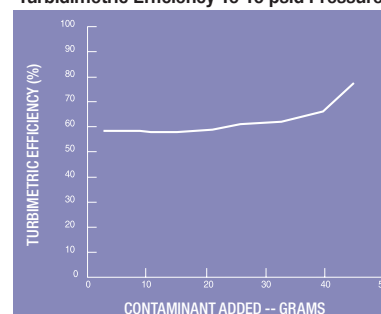
GRADE	Nominal RATING (Microns)	SPECIFIC PRESSURE DROP (SPD)*	
		(psid/gmp-Cp)	(mbar/lmp-Cp)
Y8	1	0.3254	5.93
A8	3	0.2034	3.71
B8	5	0.1271	2.32
C8	10	0.0712	1.30
F8	25	0.0356	0.65
L8	50	0.0224	0.41
Q8	75	0.0142	0.26
V8	100	0.0092	0.17
W8	125	0.0041	0.07
X8	150	0.0031	0.06
Y2	1	0.3051	5.49
A2	3	0.1475	2.69
B2	5	0.0814	1.48
F2	25	0.0712	1.30
L2	50	0.0458	0.83
A3	3	0.1526	2.78
B3	5	0.0814	1.48
F3	25	0.0651	1.19
L3	50	0.0397	0.72

* Specific pressure drop for a 1 Cp fluid at ambient temperature for a single length equivalent (10") cartridge.

Graph 1: Typical Micro-Klean III Cartridge Retention Efficiency



Graph 2. - Typical Micro-Klean Cartridge Turbidimetric Efficiency To 10 psid Pressure Drop



Micro-Klean III Series Ordering Guide

Standard Product

Surface Type	Cartridge Length*	Designation Grade — Rating	Formulations Available	Cartridge Lengths*	Options
G - Grooved	78 - 9 3/4"	Y - 1 µm	2, 8	1	N - None
U - Ungrooved	80 - 10"	A - 3 µm	2, 3, 8	2	G - Polyethylene Gasket
		B - 5 µm	2, 3, 8	3	X - 316 S.S. Core Extender
		C - 10 µm	8	4	P - Polypropylene Core Extender
		F - 25 µm	2, 3, 8		S - Shrink Wrap
		L - 50 µm	2, 3, 8		T - Tissue Wrap
		Q - 75 µm	8		
		V - 100 µm	8		
		W - 125 µm	8		
		X - 150 µm	8		

Micro-Klean III High Temperature

Surface Type	Cartridge Length*	Designation Grade / Rating	Formulations Available	Cartridge Lengths*	Temperature Option	End Treatment Options**	Gasket/O-Ring
G - Grooved	78 - 9 3/4"	Y - 1 µm	2, 8	1	H - High Temperature	N - None	N - None
U - Ungrooved	80 - 10"	A - 3 µm	8	2		X - 316 S.S. Core Extender	A - Silicone
		B - 5 µm	8	3		B - Single Open End, 226 Bayonet Lock & Fin	B - Fluorocarbon
		C - 10 µm	8	4		C - Single Open End, 222 O-ring & Fin	C - EPR
		F - 25 µm	8			F - Single Open End, 222 O-ring & Flat Cap	D - Nitrile
		L - 50 µm	8				
		Q - 75 µm	8				
		V - 100 µm	8				
		W - 125 µm	8				
		X - 150 µm	8				

* Cartridge over all lengths will be multiples of either 9 3/4" or 10".

** B, C, and F options constructed of polyester.

Important Notice: The information described in this literature is accurate to the best of our knowledge. A variety of factors, however, can affect the performance of the Product(s) in a particular application, some of which are uniquely within your knowledge and control. INFORMATION IS SUPPLIED UPON THE CONDITION THAT THE PERSONS RECEIVING THE SAME WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR USE. IN NO EVENT WILL 3M PURIFICATION INC. BE RESPONSIBLE FOR DAMAGES OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION.

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The LEED® (Leadership in Energy and Environmental Design) Green Building Rating System is the nationally accepted benchmark for the design, construction, and operation of high performance green buildings."

The below 3M Cuno Mikroklean cartridge filters are all the models that are potentially possible in all variations.
Please note that not all models are actually produced or on stock and some model numbers and names have become obsolete.
Nevertheless this should help as cross reference table chart for Cuno filters nomenclature.

Micro-Klean III Det grooved

G78Y21N	G78A21N	G78B21N	G78C81N	G78F21N	G78L21N	G78Q81N	G78V81N	G78W81N	G78X81N	G80Y21N	G80A21N	G80B21N	G80C81N	G80F21N	G80L21N	G80Q81N	G80V81N	G80W81N	G80X81N
G78Y21G	G78A21G	G78B21G	G78C81G	G78F21G	G78L21G	G78Q81G	G78V81G	G78W81G	G78X81G	G80Y21G	G80A21G	G80B21G	G80C81G	G80F21G	G80L21G	G80Q81G	G80V81G	G80W81G	G80X81G
G78Y21X	G78A21X	G78B21X	G78C81X	G78F21X	G78L21X	G78Q81X	G78V81X	G78W81X	G78X81X	G80Y21X	G80A21X	G80B21X	G80C81X	G80F21X	G80L21X	G80Q81X	G80V81X	G80W81X	G80X81X
G78Y21P	G78A21P	G78B21P	G78C81P	G78F21P	G78L21P	G78Q81P	G78V81P	G78W81P	G78X81P	G80Y21P	G80A21P	G80B21P	G80C81P	G80F21P	G80L21P	G80Q81P	G80V81P	G80W81P	G80X81P
G78Y21S	G78A21S	G78B21S	G78C81S	G78F21S	G78L21S	G78Q81S	G78V81S	G78W81S	G78X81S	G80Y21S	G80A21S	G80B21S	G80C81S	G80F21S	G80L21S	G80Q81S	G80V81S	G80W81S	G80X81S
G78Y21T	G78A21T	G78B21T	G78C81T	G78F21T	G78L21T	G78Q81T	G78V81T	G78W81T	G78X81T	G80Y21T	G80A21T	G80B21T	G80C81T	G80F21T	G80L21T	G80Q81T	G80V81T	G80W81T	G80X81T
G78Y22N	G78A22N	G78B22N	G78C82N	G78F22N	G78L22N	G78Q82N	G78V82N	G78W82N	G78X82N	G80Y22N	G80A22N	G80B22N	G80C82N	G80F22N	G80L22N	G80Q82N	G80V82N	G80W82N	G80X82N
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G78Y22X	G78A22X	G78B22X	G78C82X	G78F22X	G78L22X	G78Q82X	G78V82X	G78W82X	G78X82X	G80Y22X	G80A22X	G80B22X	G80C82X	G80F22X	G80L22X	G80Q82X	G80V82X	G80W82X	G80X82X
G78Y22P	G78A22P	G78B22P	G78C82P	G78F22P	G78L22P	G78Q82P	G78V82P	G78W82P	G78X82P	G80Y22P	G80A22P	G80B22P	G80C82P	G80F22P	G80L22P	G80Q82P	G80V82P	G80W82P	G80X82P
G78Y22S	G78A22S	G78B22S	G78C82S	G78F22S	G78L22S	G78Q82S	G78V82S	G78W82S	G78X82S	G80Y22S	G80A22S	G80B22S	G80C82S	G80F22S	G80L22S	G80Q82S	G80V82S	G80W82S	G80X82S
G78Y22T	G78A22T	G78B22T	G78C82T	G78F22T	G78L22T	G78Q82T	G78V82T	G78W82T	G78X82T	G80Y22T	G80A22T	G80B22T	G80C82T	G80F22T	G80L22T	G80Q82T	G80V82T	G80W82T	G80X82T
G78Y23N	G78A23N	G78B23N	G78C83N	G78F23N	G78L23N	G78Q83N	G78V83N	G78W83N	G78X83N	G80Y23N	G80A23N	G80B23N	G80C83N	G80F23N	G80L23N	G80Q83N	G80V83N	G80W83N	G80X83N
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G78Y23S	G78A23S	G78B23S	G78C83S	G78F23S	G78L23S	G78Q83S	G78V83S	G78W83S	G78X83S	G80Y23S	G80A23S	G80B23S	G80C83S	G80F23S	G80L23S	G80Q83S	G80V83S	G80W83S	G80X83S
G78Y23T	G78A23T	G78B23T	G78C83T	G78F23T	G78L23T	G78Q83T	G78V83T	G78W83T	G78X83T	G80Y23T	G80A23T	G80B23T	G80C83T	G80F23T	G80L23T	G80Q83T	G80V83T	G80W83T	G80X83T
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G78Y82P	G78A32P	G78B32P	G78F2	G78F32P	G78L32P	G78A82P	G78B82P	G78F82P	G78L82P	G80Y82P	G80A32P	G80B32P	G80L8	G80F32P	G80L32P	G80A82P	G80B82P	G80F82P	G80L82P
G78Y82S	G78A32S	G78B32S	G78F3	G78F32S	G78L32S	G78A82S	G78B82S	G78F82S	G78L82S	G80Y82S	G80A32S	G80B32S	G80Q8	G80F32S	G80L32S	G80A82S	G80B82S	G80F82S	G80L82S
G78Y82T	G78A32T	G78B32T	G78F8	G78F32T	G78L32T	G78A82T	G78B82T	G78F82T	G78L82T	G80Y82T	G80A32T	G80B32T	G80V8	G80F32T	G80L32T	G80A82T	G80B82T	G80F82T	G80L82T
G78Y83N	G78A33N	G78B33N	G78L2	G78F33N	G78L33N	G78A83N	G78B83N	G78F83N	G78L83N	G80Y83N	G80A33N	G80B33N	G80W8	G80F33N	G80L33N	G80A83N	G80B83N	G80F83N	G80L83N
G78Y83G	G78A33G	G78B33G	G78L3	G78F33G	G78L33G	G78A83G	G78B83G	G78F83G	G78L83G	G80Y83G	G80A33G	G80B33G	G80X8	G80F33G	G80L33G	G80A83G	G80B83G	G80F83G	G80L83G
G78Y83X	G78A33X	G78B33X	G78L8	G78F33X	G78L33X	G78A83X	G78B83X	G78F83X	G78L83X	G80Y83X	G80A33X	G80B33X		G80F33X	G80L33X	G80A83X	G80B83X	G80F83X	G80L83X
G78Y83P	G78A33P	G78B33P	G78Q8	G78F33P	G78L33P	G78A83P	G78B83P	G78F83P	G78L83P	G80Y83P	G80A33P	G80B33P		G80F33P	G80L33P	G80A83P	G80B83P	G80F83P	G80L83P
G78Y83S	G78A33S	G78B33S	G78V8	G78F33S	G78L33S	G78A83S	G78B83S	G78F83S	G78L83S	G80Y83S	G80A33S	G80B33S		G80F33S	G80L33S	G80A83S	G80B83S	G80F83S	G80L83S
G78Y83T	G78A33T	G78B33T	G78W8	G78F33T	G78L33T	G78A83T	G78B83T	G78F83T	G78L83T	G80Y83T	G80A33T	G80B33T		G80F33T	G80L33T	G80A83T	G80B83T	G80F83T	G80L83T
G78Y84N	G78A34N	G78B34N	G78X8	G78F34N	G78L34N	G78A84N	G78B84N	G78F84N	G78L84N	G80Y84N	G80A34N	G80B34N		G80F34N	G80L34N	G80A84N	G80B84N	G80F84N	G80L84N
G78Y84G	G78A34G	G78B34G	G80Y2	G78F34G	G78L34G	G78A84G	G78B84G	G78F84G	G78L84G	G80Y84G	G80A34G	G80B34G		G80F34G	G80L34G	G80A84G	G80B84G	G80F84G	G80L84G
G78Y84X	G78A34X	G78B34X	G80Y8	G78F34X	G78L34X	G78A84X	G78B84X	G78F84X	G78L84X	G80Y84X	G80A34X	G80B34X		G80F34X	G80L34X	G80A84X	G80B84X	G80F84X	G80L84X
G78Y84P	G78A34P	G78B34P	G80A2	G78F34P	G78L34P	G78A84P	G78B84P	G78F84P	G78L84P	G80Y84P	G80A34P	G80B34P		G80F34P	G80L34P	G80A84P	G80B84P	G80F84P	G80L84P
G78Y84S	G78A34S	G78B34S	G80A3	G78F34S	G78L34S	G78A84S	G78B84S	G78F84S	G78L84S	G80Y84S	G80A34S	G80B34S		G80F34S	G80L34S	G80A84S	G80B84S	G80F84S	G80L84S
G78Y84T	G78A34T	G78B34T	G80A8	G78F34T	G78L34T	G78A84T	G78B84T	G78F84T	G78L84T	G80Y84T	G80A34T	G80B34T		G80F34T	G80L34T	G80A84T	G80B84T	G80F84T	G80L84T

Micro-Klean III Det ungrooved

U78Y21N	U78A21N	U78B21N	U78C81N	U78F21N	U78L21N	U78Q81N	U78V81N	U78W81N	U78X81N	U80Y21N	U80A21N	U80B21N	U80C81N	U80F21N	U80L21N	U80Q81N	U80V81N	U80W81N	U80X81N
U78Y21G	U78A21G	U78B21G	U78C81G	U78F21G	U78L21G	U78Q81G	U78V81G	U78W81G	U78X81G	U80Y21G	U80A21G	U80B21G	U80C81G	U80F21G	U80L21G	U80Q81G	U80V81G	U80W81G	U80X81G
U78Y21X	U78A21X	U78B21X	U78C81X	U78F21X	U78L21X	U78Q81X	U78V81X	U78W81X	U78X81X	U80Y21X	U80A21X	U80B21X	U80C81X	U80F21X	U80L21X	U80Q81X	U80V81X	U80W81X	U80X81X
U78Y21P	U78A21P	U78B21P	U78C81P	U78F21P	U78L21P	U78Q81P	U78V81P	U78W81P	U78X81P	U80Y21P	U80A21P	U80B21P	U80C81P	U80F21P	U80L21P	U80Q81P	U80V81P	U80W81P	U80X81P
U78Y21S	U78A21S	U78B21S	U78C81S	U78F21S	U78L21S	U78Q81S	U78V81S	U78W81S	U78X81S	U80Y21S	U80A21S	U80B21S	U80C81S	U80F21S	U80L21S	U80Q81S	U80V81S	U80W81S	U80X81S
U78Y21T	U78A21T	U78B21T	U78C81T	U78F21T	U78L21T	U78Q81T	U78V81T	U78W81T	U78X81T	U80Y21T	U80A21T	U80B21T	U80C81T	U80F21T	U80L21T	U80Q81T	U80V81T	U80W81T	U80X81T
U78Y22N	U78A22N	U78B22N	U78C82N	U78F22N	U78L22N	U78Q82N	U78V82N	U78W82N	U78X82N	U80Y22N	U80A22N	U80B22N	U80C82N	U80F22N	U80L22N	U80Q82N	U80V82N	U80W82N	U80X82N
U78Y22G	U78A22G	U78B22G	U78C82G	U78F22G	U78L22G	U78Q82G	U78V82G	U78W82G	U78X82G	U80Y22G	U80A22G	U80B22G	U80C82G	U80F22G	U80L22G	U80Q82G	U80V82G	U80W82G	U80X82G
U78Y22X	U78A22X	U78B22X	U78C82X	U78F22X	U78L22X	U78Q82X	U78V82X	U78W82X	U78X82X	U80Y22X	U80A22X	U80B22X	U80C82X	U80F22X	U80L22X	U80Q82X	U80V82X	U80W82X	U80X82X

U78Y22P	U78A22P	U78B22P	U78C82P	U78F22P	U78L22P	U78Q82P	U78V82P	U78W82P	U78X82P	U80Y22P	U80A22P	U80B22P	U80C82P	U80F22P	U80L22P	U80Q82P	U80V82P	U80W82P	U80X82P
U78Y22S	U78A22S	U78B22S	U78C82S	U78F22S	U78L22S	U78Q82S	U78V82S	U78W82S	U78X82S	U80Y22S	U80A22S	U80B22S	U80C82S	U80F22S	U80L22S	U80Q82S	U80V82S	U80W82S	U80X82S
U78Y22T	U78A22T	U78B22T	U78C82T	U78F22T	U78L22T	U78Q82T	U78V82T	U78W82T	U78X82T	U80Y22T	U80A22T	U80B22T	U80C82T	U80F22T	U80L22T	U80Q82T	U80V82T	U80W82T	U80X82T
U78Y23N	U78A23N	U78B23N	U78C83N	U78F23N	U78L23N	U78Q83N	U78V83N	U78W83N	U78X83N	U80Y23N	U80A23N	U80B23N	U80C83N	U80F23N	U80L23N	U80Q83N	U80V83N	U80W83N	U80X83N
U78Y23G	U78A23G	U78B23G	U78C83G	U78F23G	U78L23G	U78Q83G	U78V83G	U78W83G	U78X83G	U80Y23G	U80A23G	U80B23G	U80C83G	U80F23G	U80L23G	U80Q83G	U80V83G	U80W83G	U80X83G
U78Y23X	U78A23X	U78B23X	U78C83X	U78F23X	U78L23X	U78Q83X	U78V83X	U78W83X	U78X83X	U80Y23X	U80A23X	U80B23X	U80C83X	U80F23X	U80L23X	U80Q83X	U80V83X	U80W83X	U80X83X
U78Y23P	U78A23P	U78B23P	U78C83P	U78F23P	U78L23P	U78Q83P	U78V83P	U78W83P	U78X83P	U80Y23P	U80A23P	U80B23P	U80C83P	U80F23P	U80L23P	U80Q83P	U80V83P	U80W83P	U80X83P
U78Y23S	U78A23S	U78B23S	U78C83S	U78F23S	U78L23S	U78Q83S	U78V83S	U78W83S	U78X83S	U80Y23S	U80A23S	U80B23S	U80C83S	U80F23S	U80L23S	U80Q83S	U80V83S	U80W83S	U80X83S
U78Y23T	U78A23T	U78B23T	U78C83T	U78F23T	U78L23T	U78Q83T	U78V83T	U78W83T	U78X83T	U80Y23T	U80A23T	U80B23T	U80C83T	U80F23T	U80L23T	U80Q83T	U80V83T	U80W83T	U80X83T
U78Y24N	U78A24N	U78B24N	U78C84N	U78F24N	U78L24N	U78Q84N	U78V84N	U78W84N	U78X84N	U80Y24N	U80A24N	U80B24N	U80C84N	U80F24N	U80L24N	U80Q84N	U80V84N	U80W84N	U80X84N
U78Y24G	U78A24G	U78B24G	U78C84G	U78F24G	U78L24G	U78Q84G	U78V84G	U78W84G	U78X84G	U80Y24G	U80A24G	U80B24G	U80C84G	U80F24G	U80L24G	U80Q84G	U80V84G	U80W84G	U80X84G
U78Y24X	U78A24X	U78B24X	U78C84X	U78F24X	U78L24X	U78Q84X	U78V84X	U78W84X	U78X84X	U80Y24X	U80A24X	U80B24X	U80C84X	U80F24X	U80L24X	U80Q84X	U80V84X	U80W84X	U80X84X
U78Y24P	U78A24P	U78B24P	U78C84P	U78F24P	U78L24P	U78Q84P	U78V84P	U78W84P	U78X84P	U80Y24P	U80A24P	U80B24P	U80C84P	U80F24P	U80L24P	U80Q84P	U80V84P	U80W84P	U80X84P
U78Y24S	U78A24S	U78B24S	U78C84S	U78F24S	U78L24S	U78Q84S	U78V84S	U78W84S	U78X84S	U80Y24S	U80A24S	U80B24S	U80C84S	U80F24S	U80L24S	U80Q84S	U80V84S	U80W84S	U80X84S
U78Y24T	U78A24T	U78B24T	U78C84T	U78F24T	U78L24T	U78Q84T	U78V84T	U78W84T	U78X84T	U80Y24T	U80A24T	U80B24T	U80C84T	U80F24T	U80L24T	U80Q84T	U80V84T	U80W84T	U80X84T
U78Y81N	U78A31N	U78B31N	U78Y2	U78F31N	U78L31N	U78A81N	U78B81N	U78F81N	U78L81N	U80Y81N	U80A31N	U80B31N	U80B2	U80F31N	U80L31N	U80A81N	U80B81N	U80F81N	U80L81N
U78Y81G	U78A31G	U78B31G	U78Y8	U78F31G	U78L31G	U78A81G	U78B81G	U78F81G	U78L81G	U80Y81G	U80A31G	U80B31G	U80B3	U80F31G	U80L31G	U80A81G	U80B81G	U80F81G	U80L81G
U78Y81X	U78A31X	U78B31X	U78A2	U78F31X	U78L31X	U78A81X	U78B81X	U78F81X	U78L81X	U80Y81X	U80A31X	U80B31X	U80B8	U80F31X	U80L31X	U80A81X	U80B81X	U80F81X	U80L81X
U78Y81P	U78A31P	U78B31P	U78A3	U78F31P	U78L31P	U78A81P	U78B81P	U78F81P	U78L81P	U80Y81P	U80A31P	U80B31P	U80C8	U80F31P	U80L31P	U80A81P	U80B81P	U80F81P	U80L81P
U78Y81S	U78A31S	U78B31S	U78A8	U78F31S	U78L31S	U78A81S	U78B81S	U78F81S	U78L81S	U80Y81S	U80A31S	U80B31S	U80F2	U80F31S	U80L31S	U80A81S	U80B81S	U80F81S	U80L81S
U78Y81T	U78A31T	U78B31T	U78B2	U78F31T	U78L31T	U78A81T	U78B81T	U78F81T	U78L81T	U80Y81T	U80A31T	U80B31T	U80F3	U80F31T	U80L31T	U80A81T	U80B81T	U80F81T	U80L81T
U78Y82N	U78A32N	U78B32N	U78B3	U78F32N	U78L32N	U78A82N	U78B82N	U78F82N	U78L82N	U80Y82N	U80A32N	U80B32N	U80F8	U80F32N	U80L32N	U80A82N	U80B82N	U80F82N	U80L82N
U78Y82G	U78A32G	U78B32G	U78B8	U78F32G	U78L32G	U78A82G	U78B82G	U78F82G	U78L82G	U80Y82G	U80A32G	U80B32G	U80L2	U80F32G	U80L32G	U80A82G	U80B82G	U80F82G	U80L82G
U78Y82X	U78A32X	U78B32X	U78C8	U78F32X	U78L32X	U78A82X	U78B82X	U78F82X	U78L82X	U80Y82X	U80A32X	U80B32X	U80L3	U80F32X	U80L32X	U80A82X	U80B82X	U80F82X	U80L82X
U78Y82P	U78A32P	U78B32P	U78F2	U78F32P	U78L32P	U78A82P	U78B82P	U78F82P	U78L82P	U80Y82P	U80A32P	U80B32P	U80L8	U80F32P	U80L32P	U80A82P	U80B82P	U80F82P	U80L82P
U78Y82S	U78A32S	U78B32S	U78F3	U78F32S	U78L32S	U78A82S	U78B82S	U78F82S	U78L82S	U80Y82S	U80A32S	U80B32S	U80Q8	U80F32S	U80L32S	U80A82S	U80B82S	U80F82S	U80L82S
U78Y82T	U78A32T	U78B32T	U78F8	U78F32T	U78L32T	U78A82T	U78B82T	U78F82T	U78L82T	U80Y82T	U80A32T	U80B32T	U80V8	U80F32T	U80L32T	U80A82T	U80B82T	U80F82T	U80L82T
U78Y83N	U78A33N	U78B33N	U78L2	U78F33N	U78L33N	U78A83N	U78B83N	U78F83N	U78L83N	U80Y83N	U80A33N	U80B33N	U80W8	U80F33N	U80L33N	U80A83N	U80B83N	U80F83N	U80L83N
U78Y83G	U78A33G	U78B33G	U78L3	U78F33G	U78L33G	U78A83G	U78B83G	U78F83G	U78L83G	U80Y83G	U80A33G	U80B33G	U80X8	U80F33G	U80L33G	U80A83G	U80B83G	U80F83G	U80L83G
U78Y83X	U78A33X	U78B33X	U78L8	U78F33X	U78L33X	U78A83X	U78B83X	U78F83X	U78L83X	U80Y83X	U80A33X	U80B33X		U80F33X	U80L33X	U80A83X	U80B83X	U80F83X	U80L83X
U78Y83P	U78A33P	U78B33P	U78Q8	U78F33P	U78L33P	U78A83P	U78B83P	U78F83P	U78L83P	U80Y83P	U80A33P	U80B33P		U80F33P	U80L33P	U80A83P	U80B83P	U80F83P	U80L83P
U78Y83S	U78A33S	U78B33S	U78V8	U78F33S	U78L33S	U78A83S	U78B83S	U78F83S	U78L83S	U80Y83S	U80A33S	U80B33S		U80F33S	U80L33S	U80A83S	U80B83S	U80F83S	U80L83S
U78Y83T	U78A33T	U78B33T	U78W8	U78F33T	U78L33T	U78A83T	U78B83T	U78F83T	U78L83T	U80Y83T	U80A33T	U80B33T		U80F33T	U80L33T	U80A83T	U80B83T	U80F83T	U80L83T
U78Y84N	U78A34N	U78B34N	U78X8	U78F34N	U78L34N	U78A84N	U78B84N	U78F84N	U78L84N	U80Y84N	U80A34N	U80B34N		U80F34N	U80L34N	U80A84N	U80B84N	U80F84N	U80L84N
U78Y84G	U78A34G	U78B34G	U80Y2	U78F34G	U78L34G	U78A84G	U78B84G	U78F84G	U78L84G	U80Y84G	U80A34G	U80B34G		U80F34G	U80L34G	U80A84G	U80B84G	U80F84G	U80L84G
U78Y84X	U78A34X	U78B34X	U80Y8	U78F34X	U78L34X	U78A84X	U78B84X	U78F84X	U78L84X	U80Y84X	U80A34X	U80B34X		U80F34X	U80L34X	U80A84X	U80B84X	U80F84X	U80L84X
U78Y84P	U78A34P	U78B34P	U80A2	U78F34P	U78L34P	U78A84P	U78B84P	U78F84P	U78L84P	U80Y84P	U80A34P	U80B34P		U80F34P	U80L34P	U80A84P	U80B84P	U80F84P	U80L84P
U78Y84S	U78A34S	U78B34S	U80A3	U78F34S	U78L34S	U78A84S	U78B84S	U78F84S	U78L84S	U80Y84S	U80A34S	U80B34S		U80F34S	U80L34S	U80A84S	U80B84S	U80F84S	U80L84S
U78Y84T	U78A34T	U78B34T	U80A8	U78F34T	U78L34T	U78A84T	U78B84T	U78F84T	U78L84T	U80Y84T	U80A34T	U80B34T		U80F34T	U80L34T	U80A84T	U80B84T	U80F84T	U80L84T

Micro-Klean III Det HT grooved

G78Y21HNN	G78A81HNN	G78B81HNN	G78C81HNN	G78F81HNN	G78L81HNN	G78Q81HNN	G78V81HNN	G78W81HNN	G78X81HNN	G80Y21HNN	G80A81HNN	G80B81HNN	G80C81HNN	G80F81HNN	G80L81HNN	G80Q81HNN	G80V81HNN	G80W81HNN	G80X81HNN
G78Y21HNA	G78A81HNA	G78B81HNA	G78C81HNA	G78F81HNA	G78L81HNA	G78Q81HNA	G78V81HNA	G78W81HNA	G78X81HNA	G80Y21HNA	G80A81HNA	G80B81HNA	G80C81HNA	G80F81HNA	G80L81HNA	G80Q81HNA	G80V81HNA	G80W81HNA	G80X81HNA
G78Y21HNB	G78A81HNB	G78B81HNB	G78C81HNB	G78F81HNB	G78L81HNB	G78Q81HNB	G78V81HNB	G78W81HNB	G78X81HNB	G80Y21HNB	G80A81HNB	G80B81HNB	G80C81HNB	G80F81HNB	G80L81HNB	G80Q81HNB	G80V81HNB	G80W81HNB	G80X81HNB
G78Y21HNC	G78A81HNC	G78B81HNC	G78C81HNC	G78F81HNC	G78L81HNC	G78Q81HNC	G78V81HNC	G78W81HNC	G78X81HNC	G80Y21HNC	G80A81HNC	G80B81HNC	G80C81HNC	G80F81HNC	G80L81HNC	G80Q81HNC	G80V81HNC	G80W81HNC	G80X81HNC
G78Y21HND	G78A81HND	G78B81HND	G78C81HND	G78F81HND	G78L81HND	G78Q81HND	G78V81HND	G78W81HND	G78X81HND	G80Y21HND	G80A81HND	G80B81HND	G80C81HND	G80F81HND	G80L81HND	G80Q81HND	G80V81HND	G80W81HND	G80X81HND
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G78Y23HBN	G78A83HBN	G78B83HBN	G78C83HBN	G78F83HBN	G78L83HBN	G78Q83HBN	G78V83HBN	G78W83HBN	G78X83HBN	G80Y23HBN	G80A83HBN	G80B83HBN	G80C83HBN	G80F83HBN	G80L83HBN	G80Q83HBN	G80V83HBN	G80W83HBN	G80X83HBN
G78Y23HBA	G78A83HBA	G78B83HBA	G78C83HBA	G78F83HBA	G78L83HBA	G78Q83HBA	G78V83HBA	G78W83HBA	G78X83HBA	G80Y23HBA	G80A83HBA	G80B83HBA	G80C83HBA	G80F83HBA	G80L83HBA	G80Q83HBA	G80V83HBA	G80W83HBA	G80X83HBA
G78Y23HBB	G78A83HBB	G78B83HBB	G78C83HBB	G78F83HBB	G78L83HBB	G78Q83HBB	G78V83HBB	G78W83HBB	G78X83HBB	G80Y23HBB	G80A83HBB	G80B83HBB	G80C83HBB	G80F83HBB	G80L83HBB	G80Q83HBB	G80V83HBB	G80W83HBB	G80X83HBB
G78Y23HBC	G78A83HBC	G78B83HBC	G78C83HBC	G78F83HBC	G78L83HBC	G78Q83HBC	G78V83HBC	G78W83HBC	G78X83HBC	G80Y23HBC	G80A83HBC	G80B83HBC	G80C83HBC	G80F83HBC	G80L83HBC	G80Q83HBC	G80V83HBC	G80W83HBC	G80X83HBC
G78Y23HBD	G78A83HBD	G78B83HBD	G78C83HBD	G78F83HBD	G78L83HBD	G78Q83HBD	G78V83HBD	G78W83HBD	G78X83HBD	G80Y23HBD	G80A83HBD	G80B83HBD	G80C83HBD	G80F83HBD	G80L83HBD	G80Q83HBD	G80V83HBD	G80W83HBD	G80X83HBD
G78Y23HCN	G78A83HCN	G78B83HCN	G78C83HCN	G78F83HCN	G78L83HCN	G78Q83HCN	G78V83HCN	G78W83HCN	G78X83HCN	G80Y23HCN	G80A83HCN	G80B83HCN	G80C83HCN	G80F83HCN	G80L83HCN	G80Q83HCN	G80V83HCN	G80W83HCN	G80X83HCN
G78Y23HCA	G78A83HCA	G78B83HCA	G78C83HCA	G78F83HCA	G78L83HCA	G78Q83HCA	G78V83HCA	G78W83HCA	G78X83HCA	G80Y23HCA	G80A83HCA	G80B83HCA	G80C83HCA	G80F83HCA	G80L83HCA	G80Q83HCA	G80V83HCA	G80W83HCA	G80X83HCA
G78Y23HCB	G78A83HCB	G78B83HCB	G78C83HCB	G78F83HCB	G78L83HCB	G78Q83HCB	G78V83HCB	G78W83HCB	G78X83HCB	G80Y23HCB	G80A83HCB	G80B83HCB	G80C83HCB	G80F83HCB	G80L83HCB	G80Q83HCB	G80V83HCB	G80W83HCB	G80X83HCB
G78Y23HCC	G78A83HCC	G78B83HCC	G78C83HCC	G78F83HCC	G78L83HCC	G78Q83HCC	G78V83HCC	G78W83HCC	G78X83HCC	G80Y23HCC	G80A83HCC	G80B83HCC	G80C83HCC	G80F83HCC	G80L83HCC	G80Q83HCC	G80V83HCC	G80W83HCC	G80X83HCC
G78Y23HCD	G78A83HCD	G78B83HCD	G78C83HCD	G78F83HCD	G78L83HCD	G78Q83HCD	G78V83HCD	G78W83HCD	G78X83HCD	G80Y23HCD	G80A83HCD	G80B83HCD	G80C83HCD	G80F83HCD	G80L83HCD	G80Q83HCD	G80V83HCD	G80W83HCD	G80X83HCD
G78Y23HFN	G78A83HFN	G78B83HFN	G78C83HFN	G78F83HFN	G78L83HFN	G78Q83HFN	G78V83HFN	G78W83HFN	G78X83HFN	G80Y23HFN	G80A83HFN	G80B83HFN	G80C83HFN	G80F83HFN	G80L83HFN	G80Q83HFN	G80V83HFN	G80W83HFN	G80X83HFN
G78Y23HFA	G78A83HFA	G78B83HFA	G78C83HFA	G78F83HFA	G78L83HFA	G78Q83HFA	G78V83HFA	G78W83HFA	G78X83HFA	G80Y23HFA	G80A83HFA	G80B83HFA	G80C83HFA	G80F83HFA	G80L83HFA	G80Q83HFA	G80V83HFA	G80W83HFA	G80X83HFA
G78Y23HFB	G78A83HFB	G78B83HFB	G78C83HFB	G78F83HFB	G78L83HFB	G78Q83HFB	G78V83HFB	G78W83HFB	G78X83HFB	G80Y23HFB	G80A83HFB	G80B83HFB	G80C83HFB	G80F83HFB	G80L83HFB	G80Q83HFB	G80V83HFB	G80W83HFB	G80X83HFB
G78Y23HFC	G78A83HFC	G78B83HFC	G78C83HFC	G78F83HFC	G78L83HFC	G78Q83HFC	G78V83HFC	G78W83HFC	G78X83HFC	G80Y23HFC	G80A83HFC	G80B83HFC	G80C83HFC	G80F83HFC	G80L83HFC	G80Q83HFC	G80V83HFC	G80W83HFC	G80X83HFC
G78Y23HFD	G78A83HFD	G78B83HFD	G78C83HFD	G78F83HFD	G78L83HFD	G78Q83HFD	G78V83HFD	G78W83HFD	G78X83HFD	G80Y23HFD	G80A83HFD	G80B83HFD	G80C83HFD	G80F83HFD					

Micro-Klean III Det HT ungrooved

U78Y21HNN	U78A81HNN	U78B81HNN	U78C81HNN	U78F81HNN	U78L81HNN	U78Q81HNN	U78V81HNN	U78W81HNN	U78X81HNN	U80Y21HNN	U80A81HNN	U80B81HNN	U80C81HNN	U80F81HNN	U80L81HNN	U80Q81HNN	U80V81HNN	U80W81HNN	U80X81HNN
U78Y21HNA	U78A81HNA	U78B81HNA	U78C81HNA	U78F81HNA	U78L81HNA	U78Q81HNA	U78V81HNA	U78W81HNA	U78X81HNA	U80Y21HNA	U80A81HNA	U80B81HNA	U80C81HNA	U80F81HNA	U80L81HNA	U80Q81HNA	U80V81HNA	U80W81HNA	U80X81HNA
U78Y21HNB	U78A81HNB	U78B81HNB	U78C81HNB	U78F81HNB	U78L81HNB	U78Q81HNB	U78V81HNB	U78W81HNB	U78X81HNB	U80Y21HNB	U80A81HNB	U80B81HNB	U80C81HNB	U80F81HNB	U80L81HNB	U80Q81HNB	U80V81HNB	U80W81HNB	U80X81HNB
U78Y21HNC	U78A81HNC	U78B81HNC	U78C81HNC	U78F81HNC	U78L81HNC	U78Q81HNC	U78V81HNC	U78W81HNC	U78X81HNC	U80Y21HNC	U80A81HNC	U80B81HNC	U80C81HNC	U80F81HNC	U80L81HNC	U80Q81HNC	U80V81HNC	U80W81HNC	U80X81HNC
U78Y21HND	U78A81HND	U78B81HND	U78C81HND	U78F81HND	U78L81HND	U78Q81HND	U78V81HND	U78W81HND	U78X81HND	U80Y21HND	U80A81HND	U80B81HND	U80C81HND	U80F81HND	U80L81HND	U80Q81HND	U80V81HND	U80W81HND	U80X81HND
U78Y21HXX	U78A81HXX	U78B81HXX	U78C81HXX	U78F81HXX	U78L81HXX	U78Q81HXX	U78V81HXX	U78W81HXX	U78X81HXX	U80Y21HXX	U80A81HXX	U80B81HXX	U80C81HXX	U80F81HXX	U80L81HXX	U80Q81HXX	U80V81HXX	U80W81HXX	U80X81HXX
U78Y21HXA	U78A81HXA	U78B81HXA	U78C81HXA	U78F81HXA	U78L81HXA	U78Q81HXA	U78V81HXA	U78W81HXA	U78X81HXA	U80Y21HXA	U80A81HXA	U80B81HXA	U80C81HXA	U80F81HXA	U80L81HXA	U80Q81HXA	U80V81HXA	U80W81HXA	U80X81HXA
U78Y21HXB	U78A81HXB	U78B81HXB	U78C81HXB	U78F81HXB	U78L81HXB	U78Q81HXB	U78V81HXB	U78W81HXB	U78X81HXB	U80Y21HXB	U80A81HXB	U80B81HXB	U80C81HXB	U80F81HXB	U80L81HXB	U80Q81HXB	U80V81HXB	U80W81HXB	U80X81HXB
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U78Y21HBN	U78A81HBN	U78B81HBN	U78C81HBN	U78F81HBN	U78L81HBN	U78Q81HBN	U78V81HBN	U78W81HBN	U78X81HBN	U80Y21HBN	U80A81HBN	U80B81HBN	U80C81HBN	U80F81HBN	U80L81HBN	U80Q81HBN	U80V81HBN	U80W81HBN	U80X81HBN
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U78Y21HBB	U78A81HBB	U78B81HBB	U78C81HBB	U78F81HBB	U78L81HBB	U78Q81HBB	U78V81HBB	U78W81HBB	U78X81HBB	U80Y21HBB	U80A81HBB	U80B81HBB	U80C81HBB	U80F81HBB	U80L81HBB	U80Q81HBB	U80V81HBB	U80W81HBB	U80X81HBB
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U78Y21HBD	U78A81HBD	U78B81HBD	U78C81HBD	U78F81HBD	U78L81HBD	U78Q81HBD	U78V81HBD	U78W81HBD	U78X81HBD	U80Y21HBD	U80A81HBD	U80B81HBD	U80C81HBD	U80F81HBD	U80L81HBD	U80Q81HBD	U80V81HBD	U80W81HBD	U80X81HBD
U78Y21HCN	U78A81HCN	U78B81HCN	U78C81HCN	U78F81HCN	U78L81HCN	U78Q81HCN	U78V81HCN	U78W81HCN	U78X81HCN	U80Y21HCN	U80A81HCN	U80B81HCN	U80C81HCN	U80F81HCN	U80L81HCN	U80Q81HCN	U80V81HCN	U80W81HCN	U80X81HCN
U78Y21HCA	U78A81HCA	U78B81HCA	U78C81HCA	U78F81HCA	U78L81HCA	U78Q81HCA	U78V81HCA	U78W81HCA	U78X81HCA	U80Y21HCA	U80A81HCA	U80B81HCA	U80C81HCA	U80F81HCA	U80L81HCA	U80Q81HCA	U80V81HCA	U80W81HCA	U80X81HCA
U78Y21HCB	U78A81HCB	U78B81HCB	U78C81HCB	U78F81HCB	U78L81HCB	U78Q81HCB	U78V81HCB	U78W81HCB	U78X81HCB	U80Y21HCB	U80A81HCB	U80B81HCB	U80C81HCB	U80F81HCB	U80L81HCB	U80Q81HCB	U80V81HCB	U80W81HCB	U80X81HCB
U78Y21HCC	U78A81HCC	U78B81HCC	U78C81HCC	U78F81HCC	U78L81HCC	U78Q81HCC	U78V81HCC	U78W81HCC	U78X81HCC	U80Y21HCC	U80A81HCC	U80B81HCC	U80C81HCC	U80F81HCC	U80L81HCC	U80Q81HCC	U80V81HCC	U80W81HCC	U80X81HCC
U78Y21HCD	U78A81HCD	U78B81HCD	U78C81HCD	U78F81HCD	U78L81HCD	U78Q81HCD	U78V81HCD	U78W81HCD	U78X81HCD	U80Y21HCD	U80A81HCD	U80B81HCD	U80C81HCD	U80F81HCD	U80L81HCD	U80Q81HCD	U80V81HCD	U80W81HCD	U80X81HCD
U78Y21HFN	U78A81HFN	U78B81HFN	U78C81HFN	U78F81HFN	U78L81HFN	U78Q81HFN	U78V81HFN	U78W81HFN	U78X81HFN	U80Y21HFN	U80A81HFN	U80B81HFN	U80C81HFN	U80F81HFN	U80L81HFN	U80Q81HFN	U80V81HFN	U80W81HFN	U80X81HFN
U78Y21HFA	U78A81HFA	U78B81HFA	U78C81HFA	U78F81HFA	U78L81HFA	U78Q81HFA	U78V81HFA	U78W81HFA	U78X81HFA	U80Y21HFA	U80A81HFA	U80B81HFA	U80C81HFA	U80F81HFA	U80L81HFA	U80Q81HFA	U80V81HFA	U80W81HFA	U80X81HFA
U78Y21HFB	U78A81HFB	U78B81HFB	U78C81HFB	U78F81HFB	U78L81HFB	U78Q81HFB	U78V81HFB	U78W81HFB	U78X81HFB	U80Y21HFB	U80A81HFB	U80B81HFB	U80C81HFB	U80F81HFB	U80L81HFB	U80Q81HFB	U80V81HFB	U80W81HFB	U80X81HFB
U78Y21HFC	U78A81HFC	U78B81HFC	U78C81HFC	U78F81HFC	U78L81HFC	U78Q81HFC	U78V81HFC	U78W81HFC	U78X81HFC	U80Y21HFC	U80A81HFC	U80B81HFC	U80C81HFC	U80F81HFC	U80L81HFC	U80Q81HFC	U80V81HFC	U80W81HFC	U80X81HFC
U78Y21HFD	U78A81HFD	U78B81HFD	U78C81HFD	U78F81HFD	U78L81HFD	U78Q81HFD	U78V81HFD	U78W81HFD	U78X81HFD	U80Y21HFD	U80A81HFD	U80B81HFD	U80C81HFD	U80F81HFD	U80L81HFD	U80Q81HFD	U80V81HFD	U80W81HFD	U80X81HFD
U78Y22HNN	U78A82HNN	U78B82HNN	U78C82HNN	U78F82HNN	U78L82HNN	U78Q82HNN	U78V82HNN	U78W82HNN	U78X82HNN	U80Y22HNN	U80A82HNN	U80B82HNN	U80C82HNN	U80F82HNN	U80L82HNN	U80Q82HNN	U80V82HNN	U80W82HNN	U80X82HNN
U78Y22HNA	U78A82HNA	U78B82HNA	U78C82HNA	U78F82HNA	U78L82HNA	U78Q82HNA	U78V82HNA	U78W82HNA	U78X82HNA	U80Y22HNA	U80A82HNA	U80B82HNA	U80C82HNA	U80F82HNA	U80L82HNA	U80Q82HNA	U80V82HNA	U80W82HNA	U80X82HNA
U78Y22HNB	U78A82HNB	U78B82HNB	U78C82HNB	U78F82HNB	U78L82HNB	U78Q82HNB	U78V82HNB	U78W82HNB	U78X82HNB	U80Y22HNB	U80A82HNB	U80B82HNB	U80C82HNB	U80F82HNB	U80L82HNB	U80Q82HNB	U80V82HNB	U80W82HNB	U80X82HNB
U78Y22HNC	U78A82HNC	U78B82HNC	U78C82HNC	U78F82HNC	U78L82HNC	U78Q82HNC	U78V82HNC	U78W82HNC	U78X82HNC	U80Y22HNC	U80A82HNC	U80B82HNC	U80C82HNC	U80F82HNC	U80L82HNC	U80Q82HNC	U80V82HNC	U80W82HNC	U80X82HNC
U78Y22HND	U78A82HND	U78B82HND	U78C82HND	U78F82HND	U78L82HND	U78Q82HND	U78V82HND	U78W82HND	U78X82HND	U80Y22HND	U80A82HND	U80B82HND	U80C82HND	U80F82HND	U80L82HND	U80Q82HND	U80V82HND	U80W82HND	U80X82HND
U78Y22HXX	U78A82HXX	U78B82HXX	U78C82HXX	U78F82HXX	U78L82HXX	U78Q82HXX	U78V82HXX	U78W82HXX	U78X82HXX	U80Y22HXX	U80A82HXX	U80B82HXX	U80C82HXX	U80F82HXX	U80L82HXX	U80Q82HXX	U80V82HXX	U80W82HXX	U80X82HXX
U78Y22HXA	U78A82HXA	U78B82HXA	U78C82HXA	U78F82HXA	U78L82HXA	U78Q82HXA	U78V82HXA	U78W82HXA	U78X82HXA	U80Y22HXA	U80A82HXA	U80B82HXA	U80C82HXA	U80F82HXA	U80L82HXA	U80Q82HXA	U80V82HXA	U80W82HXA	U80X82HXA
U78Y22HXB	U78A82HXB	U78B82HXB	U78C82HXB	U78F82HXB	U78L82HXB	U78Q82HXB	U78V82HXB	U78W82HXB	U78X82HXB	U80Y22HXB	U80A82HXB	U80B82HXB	U80C82HXB	U80F82HXB	U80L82HXB	U80Q82HXB	U80V82HXB	U80W82HXB	U80X82HXB
U78Y22HXC	U78A82HXC	U78B82HXC	U78C82HXC	U78F82HXC	U78L82HXC	U78Q82HXC	U78V82HXC	U78W82HXC	U78X82HXC	U80Y22HXC	U80A82HXC	U80B82HXC	U80C82HXC	U80F82HXC	U80L82HXC	U80Q82HXC	U80V82HXC	U80W82HXC	U80X82HXC
U78Y22HXD	U78A82HXD	U78B82HXD	U78C82HXD	U78F82HXD	U78L82HXD	U78Q82HXD	U78V82HXD	U78W82HXD	U78X82HXD	U80Y22HXD	U80A82HXD	U80B82HXD	U80C82HXD	U80F82HXD	U80L82HXD	U80Q82HXD	U80V82HXD	U80W82HXD	U80X82HXD
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U78Y22HBA	U78A82HBA	U78B82HBA	U78C82HBA	U78F82HBA	U78L82HBA	U78Q82HBA	U78V82HBA	U78W82HBA	U78X82HBA	U80Y22HBA	U80A82HBA	U80B82HBA	U80C82HBA	U80F82HBA	U80L82HBA	U80Q82HBA	U80V82HBA	U80W82HBA	U80X82HBA
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U78Y22HBC	U78A82HBC	U78B82HBC	U78C82HBC	U78F82HBC	U78L82HBC	U78Q82HBC	U78V82HBC	U78W82HBC	U78X82HBC	U80Y22HBC	U80A82HBC	U80B82HBC	U80C82HBC	U80F82HBC	U80L82HBC	U80Q82HBC	U80V82HBC	U80W82HBC	U80X82HBC
U78Y22HBD	U78A82HBD	U78B82HBD	U78C82HBD	U78F82HBD	U78L82HBD	U78Q82HBD	U78V82HBD	U78W82HBD	U78X82HBD	U80Y22HBD	U80A82HBD	U80B82HBD	U80C82HBD	U80F82HBD	U80L82HBD	U80Q82HBD	U80V82HBD	U80W82HBD	U80X82HBD
U78Y22HCN	U78A82HCN	U78B82HCN	U78C82HCN	U78F82HCN	U78L82HCN	U78Q82HCN	U78V82HCN	U78W82HCN	U78X82HCN	U80Y22HCN	U80A82HCN	U80B82HCN	U80C82HCN	U80F82HCN	U80L82HCN	U80Q82HCN	U80V82HCN	U80W82HCN	U80X82HCN
U78Y22HCA	U78A82HCA	U78B82HCA	U78C82HCA	U78F82HCA	U78L82HCA	U78Q82HCA	U78V82HCA	U78W82HCA	U78X82HCA	U80Y22HCA	U80A82HCA	U80B82HCA	U80C82HCA	U80F82HCA	U80L82HCA	U80Q82HCA	U80V82HCA	U80W82HCA	U80X82HCA
U78Y22HCB	U78A82HCB	U78B82HCB	U78C82HCB	U78F82HCB	U78L82HCB	U78Q82HCB	U78V82HCB	U78W82HCB	U78X82HCB	U80Y22HCB	U80A82HCB	U80B82HCB	U80C82HCB	U80F82HCB	U80L82HCB	U80Q82HCB	U80V82HCB	U80W82HCB	U80X82HCB
U78Y22HCC	U78A82HCC	U78B82HCC	U78C82HCC	U78F82HCC	U78L82HCC	U78Q82HCC	U78V82HCC	U78W82HCC	U78X82HCC	U80Y22HCC	U80A82HCC	U80B82HCC	U80C82HCC	U80F82HCC	U80L82HCC	U80Q82HCC	U80V82HCC	U80W82HCC	U80X82HCC
U78Y22HCD	U78A82HCD	U78B82HCD	U78C82HCD	U78F82HCD	U78L82HCD	U78Q82HCD	U78V82HCD	U78W82HCD	U78X82HCD	U80Y22HCD	U80A82HCD	U80B82HCD	U80C82HCD	U80F82HCD	U80L82HCD	U80Q82HCD	U80V82HCD	U80W82HCD	U80X82HCD
U78Y22HFN	U78A82HFN	U78B82HFN	U78C82HFN	U78F82HFN	U78L82HFN	U78Q82HFN	U78V82HFN	U78W82HFN	U78X82HFN	U80Y22HFN	U80A82HFN	U80B82HFN	U80C82HFN	U80F82HFN	U80L82HFN	U80Q82HFN	U80V82HFN	U80W82HFN	U80X82HFN
U78Y22HFA	U78A82HFA	U78B82HFA	U78C82HFA	U78F82HFA	U78L82HFA	U78Q82HFA	U78V82HFA	U78W82HFA	U78X82HFA	U80Y22HFA	U80A82HFA	U80B82HFA	U80C82HFA	U80F82HFA	U80L82HFA	U80Q82HFA	U80V82HFA		

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The below 3M Cuno Mikroklean cartridge filters are all the models that are potentially possible in all variations.
Please note that not all models are actually produced or on stock and some model numbers and names have become obsolete.