

PROTOMOP™

MICROFIBER CLEANROOM FLOOR MOP



PROTOCOL CLEAN
CLEANROOM SERVICES & SUPPLIES



10oz.



16oz.



22oz.

NAME: ProtoMop 10, 16, & 22 Microfiber Mop

MATERIAL: 70% Polyester/30% Polyamide Microfiber Yarn

CONSTRUCTION: Looped Ends, Sewn Headband and Sewn Tailband.

SIZE: 10 oz., 16 oz. and 22 oz.

MICROFIBER MOP QUALITIES:

- Non-Linting
- Mechanical Cleaning action of Microfiber enhances particle collection
- High Chemical Tolerance
- 10:1 Absorbency Ratio
- Mildew Resistant
- Autoclavable (approximate 30% shrinkage until wet)
- Can Be Irradiated
- Quick Absorbency
- Long life
- Can be laundered up to 50 times

ADVANTAGES OF MICROFIBER MOPS OVER EXISTING MOPS:

- Retains standard head band/tail band mop construction but replaces cotton or poly yarn with microfiber yarn, a new material on the American market.
- No "break-in" period. Ready to use immediately.
- More absorbent – this means fewer trips to the mop bucket.
- Better particle pick up due to the microfiber 1,000's of "tiny fingers" – cleans better than present mops.
- Lighter – our 16 oz microfiber mop will pick up more water than a 24 oz cotton mop
- Non-Linting.
- Quick change of mop refills.
- High tolerance to cleaning chemicals.
- "GREEN" product as it cleans without chemicals and may be laundered 50 plus times.
- Anti-microbial construction.
- No smell – won't go sour.

SAFETY ADVANTAGES

- Glides on the floor, less torque than cotton mops - fewer injuries
- Leaves the floor drier – this means safer floors.

At Protoclean, we search for the best quality at the lowest prices, so you don't have to!

GUARANTEED EFFORTLESS CONTROL



ISO 9001:2008
REGISTERED COMPANY

www.protocleaninc.com

ph.518-899-0010

MOP RESULTS USING VESPHENE AND BLEACH ON LINOLEUM SURFACE

RESIDUE REMAINING ON SURFACE AFTER CLEANING WITH SAMPLE MOPS USING VESPHENE AND 5/95% BLEACH/DI
SURFACES TESTED USING THE Q3 SURFACE COUNTER

Competitor Foam Mop Product 1

	Vesphene	Bleach
0.3	781	1,175
0.5	730	1,145
1.0	370	880
5.0	199	659
10.0	100	381
Total Particles	2,180	4,240
Ave. Particulate Residue	436	848

PROTOMOP10

	Vesphene	Bleach
0.3	261	282
0.5	227	250
1.0	65	87
5.0	18	31
10.0	8	16
Total Particles	579	666
Ave. Particulate Residue	116	133

Competitor Foam Mop Product 2

	Vesphene	Bleach
0.3	434	1,087
0.5	401	1,075
1.0	176	933
5.0	76	735
10.0	39	430
Total Particles	1,126	4,260
Ave. Particulate Residue	225	852

Competitor Foam Mop Product 3

	Vesphene	Bleach
0.3	389	530
0.5	353	490
1.0	140	233
5.0	51	95
10.0	24	51
Total Particles	957	1,399
Ave. Particulate Residue	191	280

CLEANROOM CLEANING AGENTS AND MOP COMPARISON CHARTS

The Table below shows the effectiveness of **PROTOGREEN™** detergent compared to 12 Megohm DI water and a 70% Isopropyl Alcohol (IPA) and 30% 12 Megohm DI water. Protogreen Cleanroom Surface Cleaner is as effective or more effective than DI water or the IPA mixture. The average number of particles before testing were 463 @ 0.5 microns and larger and 80 @ 5.0 microns and larger.

WETTING AGENT	PROTOOGREEN™		12 MGOHM DI H2O		IPA/DI 70/30	
PARTICLE SIZE	0.5 MIC	5.0 MIC	0.5 MIC	5.0 MIC	0.5 MIC	5.0 MIC
NO. OF PARTICLES	164.3	16.0	233.3	32.3	170.3	19.7

The table below shows the effectiveness of **PROTOMOP™** cleanroom microfiber floor mop compared to a spun polycell cleanroom mop and a 100% polyester cleanroom mop. The microfiber mop left a surface cleaner by at least 1/2 magnitude than the other two mops sampled. The average number of particles before testing were 463 @ 0.5 microns and larger and 80 @ 5.0 microns and larger.

MOP TYPE	AVERAGE # of PARTICLES AFTER MOPING		AVERAGE # of PARTICLES BEFORE MOPING		TIMES CLEANER	
	0.5 MIC	5.0 MIC	0.5 MIC	5.0 MIC	0.5 MIC	5.0 MIC
MICROFIBER	57	4.83	463	80	8.8	9.4
SPUN LACE	97	13.17	463	80	7.9	8.4
POLY MOP	78	8.67	463	80	8.3	8.9

The table below shows the effectiveness of the **PROTOMOP™** using **PROTOGREEN™** cleanroom all-purpose surface cleaner. The average number of particles before testing were 463 @ 0.5 microns and larger and 80 @ 5.0 microns and larger.

DESCRIPTION	PROTOOGREEN™ WITH PROTOMOP™		MICROFIBER MOP	
PARTICLE SIZE	0.5 MIC	5.0 MIC	0.5 MIC	5.0 MIC
NO. OF PARTICLES	41	3.3	233.3	32.3