



FILTRATION AND PURIFICATION GUIDE FOR METAL FINISHING SOLUTIONS

201

TF-139F

PROCESS	PH	TEMPERATURE °F	TURN-OVER / HOUR	SURFACE AREA FT. ² /PER 100 GAL.	MEDIA FIBER/CORE	MICRON DEN- SITY	CARBON TREAT- MENT	MATERIALS	
								PREFERRED	ALTERNATE
Anodizing, Decorative	<1.0	60 - 80	2 - 4X	7.0 - 10.5	Polypro / Polypro	10 - 20	N / A	CPVC / Viton	PVDF / Viton
Anodizing, Hard	<1.0	30 - 35	2 - 4X	7.0 - 10.5	Polypro / Polypro	10 - 20	N / A	CPVC / Viton	PVDF / Viton
Nickel Acetate Seal	5.5	190 - 200	2 - 3X	7.0 - 10.5	Polypro / SS	10 - 20	N / A	PVDF / Viton	316SS / Viton
Brass, Bronze (CN)	>10.0	100 - 140	2 - 4X	7.0 - 10.5	Polypro / SS	10 - 20	N / A	PP / EPDM	PVC / EPDM
Cadmium (CN)	>10.0	80 - 100	2 - 4X	7.0 - 10.5	Polypro / Polypro	10 - 20	N / A	CPVC / EPDM	PP / EPDM
Cadmium, Sulfate	1.0	70 - 90	2 - 4X	7.0 - 10.5	Polypro / Polypro	10 - 20	N / A	CPVC / EPDM	PP / EPDM
Cadmium, Chloride	7.5	70 - 90	2 - 4X	7.0 - 10.5	Polypro / Polypro	10 - 20	N / A	CPVC / EPDM	PP / EPDM
Chromium (Hex.)	<1.0	100 - 140	2 - 3X	7.0 - 10.5	HI-PERF	10 - 20	N / A	CPVC / Viton	PVDF / HYPALON
Chromium (Tri.)	2.5	70 - 80	2 - 4X	10.5 - 14.0	Polypro / Polypro	5 - 15	Periodic	CPVC / EPDM	PVC / EPDM
Copper (CN)	12.0	70 - 140	2 - 4X	7.0 - 10.5	Polypro / SS	10 - 20	Periodic	PP / EPDM	CPVC / EPDM
Copper, Sulfate	<1.0	70 - 80	2 - 6X	10.5 - 14.0	Polypro / Polypro	5 - 15	Periodic	CPVC / EPDM	PP / EPDM
Copper, Fluoroborate	<1.0	70 - 90	2 - 4X	7.0 - 10.5	Polypro / Polypro	5 - 15	Periodic	CPVC / EPDM	PP / EPDM
Copper, Pyrophosphate	8.0	110 - 140	2 - 5X	7.0 - 10.5	Polypro / Polypro	5 - 15	Periodic	PP / EPDM	CPVC / EPDM
Copper, Electroless	13.0	80 - 120	4 - 10X	7.0 - 10.5	Polypro / Polypro	1 - 10	N / A	CPVC / EPDM	PP / EPDM
Gold, Acid	3.5 - 5.0	80 - 120	3 - 6X	7.0 - 10.5	Polypro / Polypro	1 - 10	Periodic	PP / EPDM	CPVC / EPDM
Gold, Neutral	6.0 - 7.0	80 - 120	3 - 6X	7.0 - 10.5	Polypro / Polypro	1 - 10	Periodic	PP / EPDM	CPVC / EPDM
Gold, Alkaline (CN)	8.0 - 12.0	100 - 140	3 - 5X	7.0 - 10.5	Polypro / Polypro	5 - 15	Periodic	PP / EPDM	CPVC / EPDM
Iron, Chloride	3.0	120 - 140	2 - 3X	7.0 - 10.5	Polypro / Polypro	10 - 20	Periodic	CPVC / EPDM	PP / EPDM
Lead, Fluoborate	1.0	90 - 100	2 - 3X	7.0 - 10.5	Polypro / Polypro	10 - 20	N / A	CPVC / EPDM	PVDF / Viton

NOTES:

1. Use information as a guide only. Contact your SERFILCO Applications Engineer for specific recommendations.
2. Maximum temperature for materials:
PLASTICS: PVC - 130°F; PP - 150°F; CPVC - 180°F; PVDF - 200°F **ELASTOMERS:** EPDM - 180°F; Viton® - 200°F; Hypalon® - 200°F
3. Surface area is measured in sq. ft. and based on depth wound cartridges each 2½" diameter x 10" long unit = 3.5 sq. ft. in equivalent dirt loading).
4. Increasing the surface area improves efficiency and prolongs the time interval between media change.

5. Increased turnover allows the use of coarser media to increase solids holding capacity.
6. For best results, **continuous** filtration should be used in every application.
7. Periodic carbon treatment is most efficient when using optional carbon filtration chamber.

PP or **Polypro** = Polypropylene
SS = Stainless Steel

N/A = Not applicable





FILTRATION AND PURIFICATION GUIDE FOR METAL FINISHING SOLUTIONS

202

TF-139F

PROCESS	pH	TEMPERATURE °F	TURN-OVER / HOUR	SURFACE AREA Ft. ² /PER 100 GAL.	MEDIA FIBER/CORE	MICRON DEN- SITY	CARBON TREAT- MENT	MATERIALS	
								PREFERRED	ALTERNATE
Nickel, Watts	4.0 - 5.0	120 - 160	2 - 5X	7.0 - 10.5	Polypro / Polypro	5 - 15	Periodic	CPVC / EPDM	PP / EPDM
Nickle, Woods	2.0	120 - 140	2 - 3X	7.0 - 10.5	Polypro / Polypro	10 - 20	Periodic	CPVC / EPDM	PVC / EPDM
Nickle, Sulfa- mate	4.0	100 -130	2 - 5X	7.0 - 10.5	Polypro / Polypro	5 - 15	Periodic	CPVC / EPDM	PP / EPDM
Nickle, Electro- less	4.0 - 6.0	180 - 130	6 - 12X	7.0 - 10.5	Polypro / Polypro	1 - 10	N / A	CPVC / Viton	PVDF / Viton
Nickle, Electro- less	>10.0	120 - 190	6 - 12X	7.0 - 10.5	Polypro / Polypro	1 - 10	N / A	CPVC / Viton	-
Palladium, Amine	8.0 - 9.0	80 - 120	3 - 5X	7.0 - 10.5	Polypro / Polypro	1 - 10	N / A	PP / EPDM	-
Palladium - Nickle	8.0 - 9.0	80 - 120	3 - 5X	7.0 - 10.5	Polypro / Polypro	1 - 10	N / A	PP / EPDM	-
Rhodium	1.0	100 - 120	3 - 5X	7.0 - 10.5	Polypro / Polypro	1 - 10	Periodic	CPVC / EPDM	PP / EPDM
Silver (CN)	12.0	70 - 85	3 - 5X	7.0 - 10.5	Polypro / Polypro	5 - 15	Periodic	PP / EPDM	CPVC / EPDM
Tin, Sulfuric	<1.0	70 - 85	2 - 3X	7.0 - 10.5	Polypro / Polypro	10 - 20	Periodic	CPVC / Viton	PVC / Viton
Tin, MSA	2.0	70 - 85	2 - 3X	7.0 - 10.5	Polypro / Polypro	10 - 20	Periodic	CPVC / Viton	PP / Viton
Tin, Alkaline	12.0	140 - 160	2 - 3X	10.5 - 14.0	Polypro / Polypro	20 - 30	N / A	PP / EPDM	-
Tin - Nickle	2.5	140 -160	2 - 3X	7.0 - 10.5	Polypro / Polypro	10 - 20	Periodic	CPVC / Viton	PP / EPDM
Tin - Lead, MSA	2.0	70 - 100	2 - 3X	7.0 - 10.5	Polypro / Polypro	10 - 20	Periodic	CPVC / Viton	PP / EPDM
Tin - Lead, Fluoborate	1.0	70 - 100	2 - 3X	7.0 - 10.5	Polypro / Polypro	10 - 20	Periodic	CPVC / EPDM	PVC / EPDM
Zinc, Chloride	5.0 - 6.0	70 -100	3 - 5X	14.0 - 17.5	Polypro / Polypro	20 - 30	Periodic	CPVC / EPDM	PVC / EPDM
Zinc - Cobalt	5.0 - 6.0	70 - 100	3 - 5X	14.0 - 17.5	Polypro / Polypro	20 - 30	Periodic	CPVC / EPDM	PVC / EPDM
Zinc, Alkaline	>13.0	70 - 100	2 - 4X	10.5 - 14.0	Polypro / Polypro	20 - 30	N / A	PP / EPDM	316SS / EPDM
Zinc (CN)	>13.0	70 -100	2 - 4X	10.5 - 14.0	Polypro / SS	20 - 30	N / A	PP / EPDM	316SS / EPDM

NOTES:

- Use information as a guide only. Contact your SERFILCO Applications Engineer for specific recommendations.
- Maximum temperature for materials:
PLASTICS: PVC - 130°F; PP - 150°F; CPVC - 180°F; PVDF - 200°F **ELASTOMERS:** EPDM - 180°F; Viton® - 200°F; Hypalon® - 200°F
- Surface area is measured in sq. ft. and based on depth wound cartridges each 2½" diameter x 10" long unit = 3.5 sq. ft. in equivalent dirt loading).
- Increasing the surface area improves efficiency and prolongs the time interval between media change.
- Increased turnover allows the use of coarser media to increase solids holding capacity.
- For best results, **continuous** filtration should be used in every application.
- Periodic carbon treatment is most efficient when using optional carbon filtration chamber.

PP or Polypro = Polypropylene
SS = Stainless Steel

N/A = Not applicable