

AquaSys® 120 Soluble Support for Additive Manufacturing

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There are three critical things to consider before dissolving AquaSys 120 and disposing of the remaining concentrate.

1. Changing your tank water can expedite dissolution.

As the concentration of dissolved AquaSys 120 increases, the efficiency of support removal will diminish. We recommend at least a 50% water exchange when the solution concentration reaches 5% weight by weight (w/w) or greater. A 5% solution is reached after approximately 40 cubic centimeters of support has been dissolved into 1 Liter of water.

2. Disposal guidelines differ, depending on where you're located.

Check with your local, state, and/or international regulatory statutes for acceptable disposal. Infinite Material Solutions recommends that disposal procedures be verified by the proper authorities within your local community. Infinite cannot anticipate local, state, or international regulatory statutes. Infinite cannot be held liable if the solution is not handled or disposed of properly. You may need to document how you dispose of the spent soluble support solution.

3. Understanding the drain effluent characteristics will help you determine the correct disposal method.

AquaSys 120 soluble support solution contains no heavy metals, and has a nearly neutral pH. Drain effluent data presented in the table below is based on a 1% w/w of AquaSys 120 in tap water (approximately 8 cubic centimeters in 1 Liter of water), and 5% w/w of AquaSys 120 in tap water (approximately 40 cubic centimeters in 1 Liter of water).

Drain Effluent Specifications

PARAMETER	METHOD	UNITS	WATER	1% SOLUTION	5% SOLUTION
pH	SM 4500 H+ B-2000	pH units	6.4	6.9	6.6
Chemical Oxygen Demand		mg/L	<10	16,400	62,900
Biochemical Oxygen Demand	SM 5210 B-2001	mg/L	<2	2,080	11,100
Solids, Total	SM 2540 B-97	mg/L	23	10,200	48,100
Biochemical Oxygen Demand	SM 5210 B-2001	mg/L	<2	2,080	11,100
Solid, Total Suspended	USGS I-3765-85	mg/L	<2	14	335
Arsenic	200.8	ug/L	<0.5	<0.5	<0.5
Barium	200.7	mg/L	<0.005	<0.005	<0.005
Cadmium	200.8	ug/L	<0.1	<0.1	<0.1
Chromium	200.7	mg/L	<0.01	<0.01	<0.01
Copper	200.7	mg/L	0.006	0.005	0.006
Lead	200.8	ug/L	<0.5	<0.5	<0.5
Mercury	EPA 245.7	ug/L	<0.005	<0.005	<0.005
Nickel	200.7	mg/L	<0.01	<0.01	0.022
Selenium	200.8	ug/L	<1	<1	<1
Silver	200.7	mg/L	<0.005	<0.005	<0.005
Zinc	200.7	mg/L	0.012	<0.01	<0.01

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