



Steri - Green

“ Earth Friendly Medical Waste Disposal ”

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How is the physical weight and volume of the medical waste impacted by the shredding process of the SteriMed Systems once the waste has been treated?

Weight of Treated Waste:

- ▶ Our system shreds and de-waters medical waste; rendering the waste unrecognizable and safe for discharge as ordinary trash.
- ▶ The process incorporates a de-watering system that removes trapped liquids from the waste stream prior to its discharge to the treated waste receptacles. The de-watering system reduces the overall weight of the waste, and renders the waste acceptable for landfilling, as the free-liquids standard for landfill waste is achieved by the dewatering process.

The table below shows test results for the percentage (%) of weight loss in dialysis waste when treating single use hemodialysis waste using SteriMed, if a waste load consisting of five (5) patient treatments was loaded and treated.

	# of dialysis treatment s in yellow bag	Weight of Untreated Waste (kg)	Weight of Treated Waste (kg)	Weight Loss Through Sterimed Treatment (kg)	% Weight Loss Through SteriMed Treatment Process	Water Content of Treated Waste (liters)
	5	10.1	7.5	2.6	25.7%	2.3
	5	10.2	8.3	1.9	18.6%	2.4
	5	10.3	8.6	1.7	16.5%	2.5
	5	10.5	7.9	2.6	24.8%	2.6
Average	5	10.3	8.1	2.2	21.4%	2.5



Similarly, the table below shows the “before” and “after” SteriMed treatment weight loss results for dialysis waste under a varying number of treatments being introduced into the SteriMed as a treatment cycle.

# of Kits In Clinical Waste Bag	Weight of Untreated Waste (kg)	Weight of Treated Waste (kg)	Weight Loss Through SteriMed Treatment (kg)	% Weight Loss Through SteriMed Treatment Process	Water Content of Treated Waste (liters)	Weight of Retained Water (kg)
1	2.1	1.2	0.9	42.9%	0.2	0.20
2	3.9	3.6	0.3	7.7%	0.75	0.75
3	5.4	4.4	1	18.5%	1.2	1.20
4	8.3	6.2	2.1	25.3%	1.75	1.75
5	10.5	7.9	2.6	24.8%	2.6	2.60
6	12.1	9.5	2.6	21.5%	2.77	2.77
7	14	11.2	2.8	20.0%	2.9	2.90



SteriMed Reduces Weight by 20 - 25%

The maceration of bloodlines and capillary dialyzers eliminates the voids where trapped saline and blood accumulate and add to the weight of untreated clinical dialysis waste.

The SteriMed process destroys these voids and washes away the trapped saline, bi-carbonate, blood, and other trapped liquids from the waste profile.

The SteriMed reduces the weight of the waste by up to 25% prior to landfilling by removal of trapped liquids. SteriMed reduces landfill volumes by as much as 90% by eliminating all hollow volumes in the medical waste through shredding.

