



## HEAVY METAL REMOVAL MEDIA DATA SHEET

### List of Filterable Metals

Rubidium, Lithium, Potassium, Caesium, Ammonium, Sodium, Calcium, Silver, Cadmium, **Lead, Zinc**, Barium, Strontium, **Copper**, Mercury, Magnesium, Iron, Cobalt, Aluminum, Chromium

### Experimental Results

**Percent Reduction** (assumes 1" of head pressure and 15 second exposure time)

Initial Metal Concentration (ppm)	Percent Removal
4.0	30%
0.4	50%

### Saturation Point

The saturation point of the Heavy Metal Removal Media is 0.07 mg heavy metal/g of Media (This translates to 31.8 g of heavy metal/lb of Media)

### Capacity of Different UltraTech Products\*

Part Number	Description	Capacity (grams of Metal removed)
9397	Ultra-Drainguard, Heavy Metal Model	190
9460	Ultra-HydroKleen Media Filter	285
9302	Ultra-Downspout Guard (Standard)	475
9301	Ultra-Downspout Guard (Large)	715
9454	Ultra-Filter Sock (9-foot length)	1145

\* - Actual results may vary based on initial metal concentration and site flow conditions

### Treatment Train Approach to Removal of Heavy Metals from Storm Water

For best results, consider a treatment train approach to your heavy metal removal. For example, if you are trying to lower the concentration of heavy metals in storm water coming off a metal roof (starting heavy metal concentration of **60 ppm** in the storm water), you could install a standard Ultra-Downspout Guard at each roof drain (lowering the concentration to **42 ppm**). At the outlet of the Ultra-Downspout Guard, you could install one Ultra-Filter Sock (further reducing the concentration to **30 ppm**) and then a second Ultra-Filter Sock (reducing the concentration to **21 ppm**) around the inlet of the drainage catch basin. Furthermore, you could install a Ultra-HydroKleen unit with three Ultra-HydroKleen HMRM 1.0 Media Filters in that catch basin (lowering the concentration of the heavy metals discharged from the site to **7 ppm – an overall reduction of 88%**). This treatment train would be capable of absorbing a total of **3.62 kg (8 lbs)** of heavy metals, filtering a total of approximately **16,000 gallons** of storm water.

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