



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.

07/06/2011

11542 Davis Creek Court • Jacksonville, FL 32256 • 904.292.1611 • 800.353.1611 • Fax
904.292.1325

E-mail: info@spillcontainment.com • www.SpillContainment.com