

**Smart Sponge® HM Product**

Smart Sponge® HM can be used in many stormwater and industrial applications to remove dissolved phase heavy metals. By using an iron based media that is blended into our proprietary polymeric media, heavy metals are economically reduced to meet environmental compliance.

**Stormwater Heavy Metal Removal Rates**

Metal	Maximum Removal Efficiency	Removal at 10 Second Retention Time
Cadmium	<u>89%</u>	<u>82%</u>
Chromium	<u>99%</u>	<u>90%</u>
Copper	<u>99%</u>	<u>74%</u>
Iron	<u>99%</u>	<u>93%</u>
Lead	<u>99%</u>	<u>89%</u>
Zinc	<u>99%</u>	<u>58%</u>
Ortho-Phosphate	<u>98%</u>	TBD
Selenium	<u>99%</u>	TBD
Arsenic	TBD	TBD
Mercury	TBD	TBD

Note:

- Removal efficiency data for each contaminant is the highest achieved value during testing. For information specific to your application, we can perform treatability work on a small sample in our lab.
- Once the media capacity is reached, it can either be regenerated in place or removed for offsite disposal and replaced with new media.
- Recharge is done using a high pH solution.



Naylor Environmental is uniquely positioned to be your full-service partner in providing solutions to the removal problems of these and other heavy metals in an efficient and effective manner. Based on our cornerstone product, Smart Sponge®, Smart Sponge HM has the following characteristics:

- Ability to be used in many stormwater and industrial applications to remove dissolved phase heavy metals
- Similar hydraulic properties as those found in other Smart Sponge Media
- Cost effective for small as well as large projects
- Can easily be retrofitted into many existing locations and structures

**If you would like to learn more about how our exceptional, innovative technology could be the smart solution for your business, please contact us.**

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**or**

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**Treats stormwater & urban run-off • Removes hydrocarbons • Destroys bacteria • FiltersRemoves Heavy Metals**