PerforMedia™ Oil Removal Media

Advanced Oil/Water Separation

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Oily water filtration was developed for filtering free oil and suspended solids from produced water or refinery wastewater, to be disposed of, re-injected, discharged or reused. These systems primarily used black walnut shell media, and required expensive treatment upstream to limit the filter loading rate.

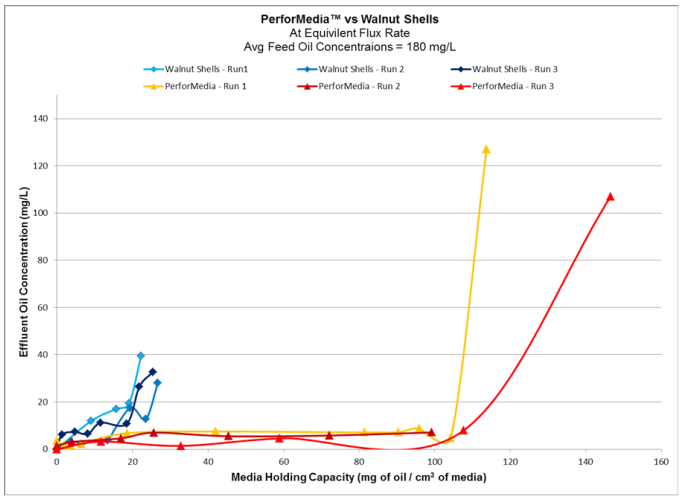
For lower total cost of ownership of treatment equipment in oily water applications, PerforMedia media from Siemens can be used in place of both flotation and walnut shell filters, reducing oil concentrations from 500 ppm down to 10 ppm or less with lower operating expense.

PerforMedia media is a patented, durable, synthetic media that is able to replace black walnut shells and other types of media in most filtration vessels. Compared to conventional walnut shell media, PerforMedia media is able to load five times more oil, allowing for the elimination of upstream flotation treatment steps. PerforMedia media can handle feed Oil & Grease concentrations of up to 500 mg/L with oil spikes >1000 mg/L vs. 100 mg/L or less for standard walnut shells. It can also handle high feed TSS concentrations, and is a physically larger media that is not as prone to plugging as conventional media.

PerforMedia™ synthetic media

Other benefits of using PerforMedia™ oil removal media include:

- Simplified, streamlined treatment train, resulting in lower capital and operational costs
- Reduction in the amount of chemicals needed to coalesce and remove smaller oil droplets in water
- Reduction in backwash frequency due to the elevated holding capacity of the media, resulting in reduced volume of backwash water sent to downstream treatment
- Lower system pressure drop results in reduced pumping costs
- Replacement of conventional media, which can be affected by environmental growing conditions
- Lower media attrition rate of 1% to 2% per year vs traditional attrition rates of 2% to 5% per year for conventional media, reducing the reoccurring annual expense of replacing lost media and resultant down time to service the vessels



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