

Metso

Battery metals solutions

GM filter



Metso GM filter is designed to remove insoluble organics in battery metals processes by utilizing very efficient and patented coalescing media. With its cost-effective and modular design, the GM filter increases recovery and recycling of valuable process chemicals.

Proven by design and research

The GM filter is an ideal choice when insoluble organics need to be removed and recovered. Due to very efficient and patented coalescing media for hydrometallurgical applications, the GM filter is able to perfect removal and recovery of insoluble organics with much higher velocity than traditional coalescing medias.

When Active Carbon (AC) filter is needed for dissolved organics adsorption from the process, by utilizing GM filter in front of AC filter, this will improve AC filter efficiency and media lifetime.

GM filter is designed for variable sizes of process streams and due to its modular design, it's easy to expand in accordance with plant process requirements. It also optimizes back washing with filtered process liquid and circulates back to the process,

ensuring that the water usage is kept to a minimum. The pumping pressure of the filter is low, thus resulting in lower energy consumption as well.

Led by experience

Metso has the most comprehensive filtration portfolio in the market with nearly a century of filtration experience and 15 different filter types available for hundreds of applications.

Together with the Dual Media (DM) and Active carbon (AC) filters, Metso has a complete filtration portfolio for SX, electrowinning and crystallization processes.

Strong know-how and experience from the hydrometallurgical industry allows the company to remain the leader in the filtration field. Metso has more than 50 successful references from solvent extraction (SX) and crystallization processes globally.

Benefits

- Utilizes the already proven cost-effective, modular design and operation philosophy as Metso's DM & AC filter product family
- Increases the quality and intake of the plant's end product
- Suitable for both greenfield and brownfield operations
- Increases recovery and recycling of valuable process chemicals
- Low energy consumption due to low pumping pressure
- Safe to use and operate due to sealed pressure vessel & piping



Application

Designed to remove insoluble organics in battery metal solvent extraction, electrowinning or crystallization processes.