

DEWATERING OF SLUDGE CONTAINING HEAVY METALS

BAG FILTERS

PURPOSE

Bag filters are used for dewatering onerous sludge which contain heavy metals from the industrial wastewater treatment plants.

Bag filters are used in industry to dewater sludge with capacity up to 1 ton per day and when fast dewatering is not required.

Bag filters are good to replace another special devices like dewatering press, centrifuges or belt press.

The result of the filtration process in bag filters is properly dewatered sludge and clean effluent without suspension. Filtration bags using in the unit allow to filter but also storage and transport the sludge (after placing in second polyethylene bag).



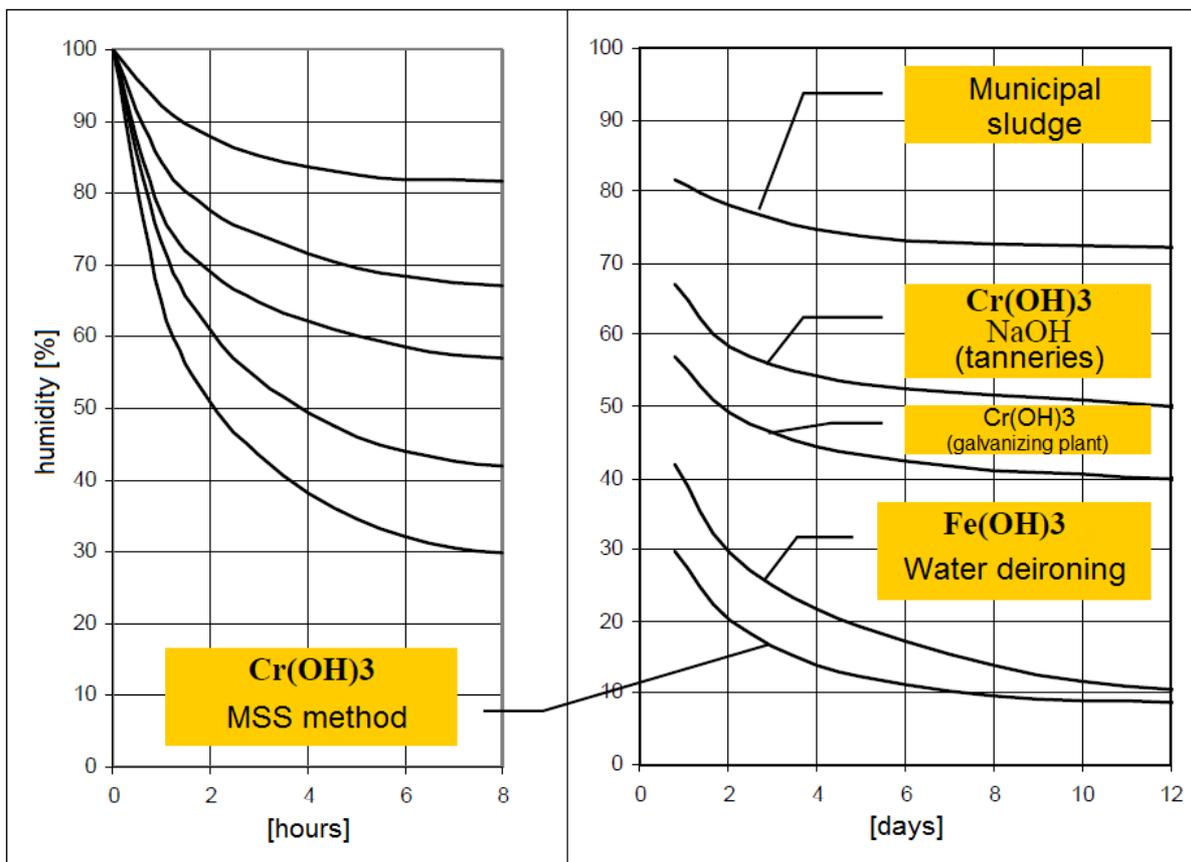
CONSTRUCTION

Bag filters are supplied in kit form, ready to install on site. Every part of the unit like tripod, handles, fittings, terminals are made from synthetic material and chemical resistant steel, what guarantee long working period.

FILTRATION BAGS

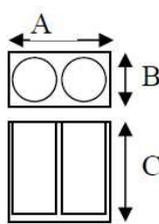
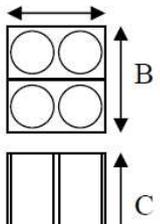
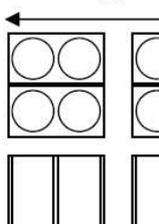


Filtration bags are made from multilayer non-woven polypropylene and are considered to be the cheapest and the most effective solution for dewatering difficult sludge for small and medium quantity of sludge. Dewatering involves the use of hydrophobic barrier filter with high porosity which guarantees a clear effluent. Full bags are stored on pallets, where the sludge is further squeezed. Finally dried sludge is transported to the treatment place or to the storage. Final product is a good dried sludge with humidity lower than after use traditional filtration units. If bags with sludge are stored in dry and ventilated places, it is possible to obtain sludge with the consistency of the dry powder, after a week of storage.



Dependence between sludge humidity after filtration time and storage time in filtration bag (in the dry warehouse).

OPTIONS OF BAG FILTERS INSTALLATION

I	II	III
		
A = 500 [mm] B = 820 [mm] C = 1300 [mm]	A = 1080 [mm] B = 820 [mm] C = 1300 [mm]	A = 2200 [mm] B = 820 [mm] C = 1300 [mm]

