MST
MINING SYSTEMS & TECHNOLOGIES

Dehydrating additives for mining settling basins
OOHV

KEY BENEFITS

- Effectively thickens material effluent
- Low material consumption
- Easy to use and does not require stirring

DESCRIPTION

Dehydrating additives for mining settling basins OOHV is a powdered compound designed to be added to settling basins when mechanized of cleaning is required, such as:
- bucket loading units;
- load haul dumpers;
- gathering-arm loaders;
and others with further loading into haulage vehicles, on scraper and belt conveyors, etc.
Consistent composition of water and effluent, that would not separate into powder and water during transportation can be achieved by adjusting dosage of OOHV.

SPECIFICATION

Content of the dehydrating additives for mine settling basins OOHV includes:
- water thickening agents, providing its sediment recharge;
- separating additives, providing tying of the suspended and mineralizing components in order to separate them into sediment and improve thickening efficiency of the remaining water.

Technical Description

APPLICATION AREA

Under- and above ground settling basins and water collection areas, large accumulations of water and effluent impeding production of mining operations, rescue and emergency activities.

Dehydrating additives for mining settling basins OOHV will create compound that can be loaded not only my mechanical means, but also by shovels, e.g. into bags, or stored in bulk on the mine surface, in niches and other mining works and cavities.

In case of downstream mining operation using mechanized or drilling-blasting method, collected and recharged water collected and left in the pores of the blasted material will be removed during material loading. This will ensure mining work between the local drainage areas without dewatering.

APPLICATION TECHNIQUE

To clean the settling basin, water and effluent inflow must be stopped.

Allow one shift to a day to settle. Then to the surface (or a part it) of the settling basin add the amount of dehydrating additives for mining settling basins OOHV (calculated to the water volume). OOHV does not require to be mixed. It is preferable not to puddle water.

Allow 30 min for OOHV to start to work (can be less than in urgent circumstances) and then commence loading of dehydrated materials, observing changes in the properties of the material being picked up.

If during the loading process there is visible a "pond" of water in the where sediment is being collected, then additional amount of OOHV needs to be added and allow at least 10-20 minutes to - in the breaks between arrival of transport or other mining activities.

When others works, such as excavation or emergency work are performed they should be guided by methods described above.

SAFETY

Avoid contact of OOHV with eyes and mouth, as the compound actively absorbs water. In case of contact, rinse with large volume of clean running water and, if necessary, seek medical advice. During work use protective clothing and personal protective equipment (rubber gloves, goggles and a respirator).

CONSUMPTION

Consumption of OOHV ranges from 2 to 5 kg and more per 1 m³ of water and depends on the degree of water contamination with suspended substances, their composition, colloid and water mineralization. OOHV consumption significantly increases with water mineralisation in excess of 30 50 grams per liter.

To reduce OOHV consumption, it should be introduced into settled water. After collection and storage of settled water, OOHV continues to absorb water, “sucking” its sediment due to capillary suction, thus thickening and dehydrating it. Thickened dehydrated sludge can be easier loaded and transported.

TECHNICAL SPECIFICATION

Appearance	dry fine and close-grained powder of discontinuous composition
Colour	white
Humidity	not more than 1%

PACKAGING TYPE

Comes in multi-layered paper valve bags providing isolation from moisture weighing 20 kg.

STORAGE SHELF LIFE

Store mix in the original packaging in a dry place and well-ventilated room with relative humidity of not more than 60%, temperature from -50°C up to +50°C. Storage period in the manufacturer's packaging is 12 months from the date of manufacture.

The information provided is based on our experience and current knowledge. Due to availability of multiple factors and conditions of use (mining conditions, mineralogical, chemical sediment compositions, water salinity, used techniques and technologies, etc.) affecting the result, possible changes in technology application might be required.

For more information please contact to the manufacturer's representative.

LLC «Mining System & Technologies»
650051, Russia, Kemerovo, pr. Kuznetskiy, 176, of. 4
within Russia: 8-800-350-97-93
international number: +7 (384-2) 777-457
www.mst.ru.com
info@mst.ru.com