Delaboration

Technology for the treatment of delaborated explosives

In order to solve the problem of neutralization of stockpiled explosive ordnances and individual unexploded ordnances, we have developed and use safely and eco-friendly delaboration technology for all types of explosive ordnances. Thanks to our technology, experience and capabilities, all removed materials are recovered, recycled and reused in different sectors of industry, reducing the climate impact to the environment.

TECHNOLOGY

The procedure is safe and is based on separation explosive from suspension. Our experience with delaboration of explosive ordnance includes anti-personnel mines, anti-tank mines, mortar shells and other types of ordnance based on TNT, RDX, HMX, as well as on various composites based on these explosives.

After finishing the treatment process of delaborated explosives, it is obtained high explosives whose quality is in line with world standards in this area, GOST, MIL and STANAG, or according to customer's special requests.

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Processes applied in our factory in Baric are generated upon results of his own development experience. The fundamental approach is based on physical-chemical properties of materials which are the ingredients in explosive mixtures as well as practical experience of own experts. The treatment procedures are evaluated on half-industrial plants followed by scale up industrial plant.

Separation of components, most often TNT, hexogen (RDX), octogen (HMX) and waxes is based on their different solubility in various types of organic solvents.

TNT has a good dissolving property in non-polar solvent – toluene, while RDX and HMX have a good dissolving properties in acetone. Selective dissolving of mixtures and separation under appropriate conditions (temperature, time, mixing conditions), are producing the crystal components of explosives: RDX/HMX, phlegmatized products based on RDX/HMX as well as admixtures produced as side products (TNT and wax with small content of RDX and HMX).

The engineering evolution of the plants and facilities includes the process parameters, protection and safety at work as well.

SAFETY

All units are designed such to provide completely safe control of the process. The plant is equipped with necessary measuring-control equipment, by which the process is managed, as well as with blockade and alarm system for process controlling and managing into safe conditions. Where is necessary for process safety reasons, all motors are foreseen in Ex-proof execution. In case of accidental situations, the emergency discharging of reactors is foreseen, and the process is brought into safe condition. The quantity of the hazardous materials in the buildings, as well as the work in them is strictly controlled, and is completely defined by operating regulations.

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