



**M.E.R.G.E**

Middle European Recycling Group Environment





## Lead battery processing division

The recycling process uses BAT technology (best available technology), one of the most efficient technologies in the world. This latest state of the art technology has a minimal impact on the environment. The plant capacity is 5 tonnes of batteries per hour.

### Products:

- 99.97% pure lead
- Lead alloys
- Polypropylene
- Sodium sulphate anhydrous

Sodium sulphate is a desulphurisation product which meets the requirements of EU Directive 2008/84/EC. The products are used in the production of pharmaceuticals, glass, arms and in the paper industry.

MACH TRADE, spol. s. r. o. is a contractual partner for the recovery of batteries and accumulators for manufacturers and importers of batteries and accumulators in Slovakia.

The company meets the conditions of certification and has its products registered in the REACH system.

### MACH TRADE, spol. s. r. o.

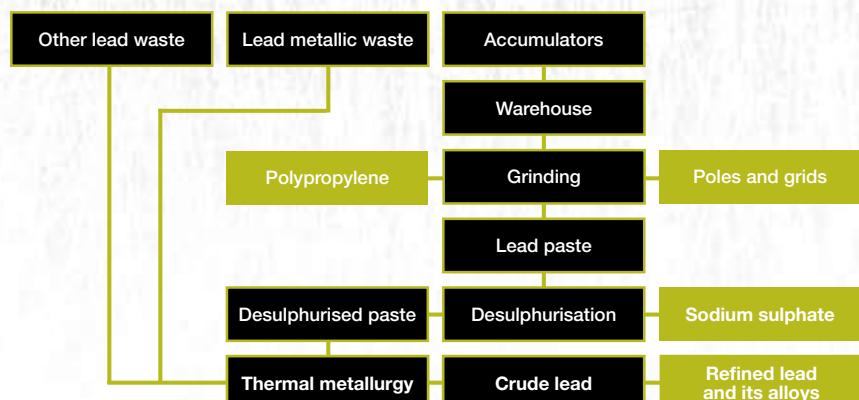
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## Portable battery and accumulator processing division and non-ferrous metal waste recycling

Insa s.r.o. is a processor of non-ferrous metals, particularly zinc, and one of its main products is the ZAMAK-type alloy.

In 2010 the company INSA s.r.o. introduced the world's most advanced technology for sorting and processing portable batteries and accumulators. A project to establish this technology was co-financed by the European Union Cohesion Fund and was awarded a prize in the Environmental Technology category at the 17th TOP International Conference.

Batteries are automatically sorted by type according to their internal composition, which enables more sophisticated processing. The processing capacity is one tonne of portable batteries every hour. As a final product the production company INSA s.r.o. produces non-ferrous metals, particularly alloys based on customer requirements. Ferrous metals are produced in two ways: electrolytic and pyrometallurgical. They are used in various automotive and other manufacturing and industrial branches. The portable batteries include AA batteries, button batteries or mobile phone batteries. All these batteries are potential sources of large quantities of valuable components, especially metals such as zinc, manganese, cadmium, cobalt and the like.

INSA s.r.o. actively cooperates with distributors and importers of portable batteries and accumulators; a collection system has been created that allows individuals to deposit used batteries into recycling boxes placed at distributor sites, city and municipal offices and also in schools. Free recycling boxes designed specifically for the collection of portable

batteries and accumulators are provided to partners who express an interest in contractual co-operation. The company is authorised to process waste portable batteries and accumulators. Authorisation for this work was issued by the Ministry of Environment of the Slovak Republic. INSA s.r.o. is a contractual partner for the recovery of portable batteries for manufacturers and importers of portable batteries and accumulators in Slovakia.

### INSA s.r.o.

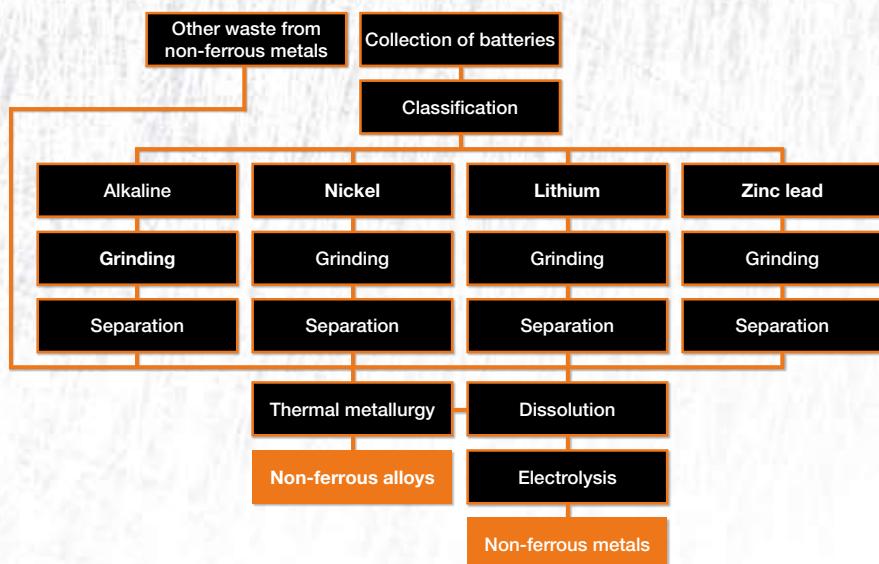
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## Hazardous waste shipping division

### The company carries out:

- the purchase, collection and transportation of portable batteries and accumulators
- the purchase, collection and transportation of used batteries (starter, traction, backup sources) under the European Agreement on International Carriage Dangerous Goods (ADR)
- dismantling of backup sources
- transportation of other waste

AKU-TRANS s.r.o. is the most important collection and transportation company carrying out the collection and transportation of waste batteries and accumulators in the Slovak Republic, in accordance with the Act on Waste and the European Agreement on the International Carriage of Dangerous Goods (ADR). AKU-TRANS s.r.o. is implementing the most important project for the disposal of waste batteries in the cities and towns of the Slovak Republic. Regarding collection, the end users - (citizens and businesses) – are allowed to deposit all of their waste batteries and accumulators conveniently through organised collection, and AKU-TRANS s.r.o. carries out the transportation for their recovery. In order to ensure the collection of batteries and accumulators, recycling boxes which are used to store waste batteries and accumulators are provided free of charge.

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