





PREMIUM SALT FLUXES INTELLIGENT RECOVERY

Complete solutions for the secondary aluminium industry



Recycling and distribution of aluminium granulate

Delivery of premium salt fluxes

COMPLETE SOLUTIONS | RELIABILITY

K+S Entsorgung is a system provider to the secondary aluminium industry. We provide premium salt fluxes and assume disposal management for salt slag and wastes.

Our premium salt fluxes Montanal® and Alasal® serve to enhance costeffectiveness in the secondary aluminium industry. These salts are produced in facilities owned by the K+S Group. Customers are quickly and reliably served directly from production point.

Using our own recycling procedures, salt slag is recycled into aluminium granulate, a valuable resource, which is then returned to our customers. The REKAL®-plant for recovering salt slag is located in the immediate vicinity of a salt mine. This optimises transport routes, and lowers costs. Additionally, in our underground disposal plants, we safely dispose of filter and ball mill dusts.

Our system solutions are based on our affiliation with the K+S Group, one of the world's leading suppliers of fertilisers as well as salt products. Embedded in their competence network, we benefit from the know-how and the logistics of a global corporation. Within this network large volumes are moved, resulting in distinctive advantages when it comes to logistics and transport expenses. All processes are safe and controlled – handling is efficient and economical.

K+S Entsorgung offers intelligent waste disposal management for the secondary aluminium industry.





Variable mixes for optimal efficiency

MONTANAL® | ALASAL®

We provide two high-grade types of salt flux to the secondary aluminium industry: The standard salt fluxes Montanal®, and the special salt fluxes Alasal®. Both salt fluxes are distinguished by their defined smelting behaviour. They optimise the smelting process and achieve excellent yields whilst reducing energy use.

We produce our salts at two potash mines operated by the K+S Group, the sites Sigmundshall and Bergmannssegen-Hugo near Hannover. This enables us to offer sufficient quantities of salt to satisfy customer demand. Provident buffer storage means we can fulfil orders even at short notice.

K+S Entsorgung guarantees consistently high quality for Montanal® and Alasal®. These natural salts are characterised by a particularly dry consistency. By varying product composition we can optimise the salts for a range of different applications.

If required, the standard salt fluxes Montanal® are supplemented by fluorspar (CaF₂) in order to adapt viscosity and wetting characteristics to the customer's needs. The special salt fluxes Alasal® are mixed of sodium chloride (NaCl) and a larger proportion of potassium chloride (KCl). This allows for a reduction of the melting point, and further improves behaviour within the smelting furnace.

K+S Entsorgung is a reliable provider of high-grade salt fluxes with convincing efficiency factors.





Recycling and distribution of aluminium granulate

SALT SLAG RE-ACCEPTANCE

K+S is able to accept back the salt slag generated by smelting aluminium which contains a range of recyclable raw materials. If required, we also take on transport, and recover the slag in the REKAL®-plant in Sigmundshall, developed specifically for this purpose.

Firstly, we extract the aluminium granulates, which have been absorbed by the salt slag during smelting. These granulates can be sold back to our customers, thereby reintroducing a raw material into the cycle.

In addition to the aluminium granulates, we extract potash and ammonium sulphates from the salt slag which are also reintroduced into the ray materials cycle.

Our intelligent recycling process is a definite asset for environmental protection.

From the remainder of the salt slag we generate a substrate, which is used within a patented procedure for greening the Sigmundshall site's potash tailings pile. This method is efficient and ecologically sound.





Transport and disposal of filter dusts

WASTES | DISPOSAL

In addition to salt slag, smelting processes in the secondary aluminium industry generate filter dusts and ball mill dusts. K+S Entsorgung also attends to these wastes, and recovers or disposes of them below ground.

Ball mill dusts from dross-processing serve as building materials in our underground recovery plants. They are perfectly suited for backfilling the mining chambers within the salt mines, wherever needed, thereby sustainably sucuring them. Using them in this way is ecologically sensible.

A residue of the smelting process are filter dusts from exhaust air filtering. These are stored in one of our underground waste disposal plants. We can also offer packaging and transport solutions. At depths of between 500 and 800 metres, the wastes are hermetically sealed against the biosphere, ensuring long-term safety. From an ecological point of view, the underground solution is the safest and most sustainable method of disposal.

With this responsible concept, K+S Entsorgung significantly contributes to the economic success and sustainability of recycling in the secondary aluminium industry.

solutions for the complete management of hazardous wastes within the secondary aluminium industry.







Cross-border logistics support

One central contact

SERVICE | PERFORMANCE

With the provision of high quality salt fluxes, the recycling of slag and the long-term-safe disposal and recovery of hazardous wastes, K+S Entsorgung offers its customers an encompassing range of services.

We function as a central contact for all of our customer's needs and concerns. Experts from other K+S fields of knowledge are available for answering specific cross-disciplinary questions, and for finding optimal solutions for our clients.

All K+S Entsorgung customers can benefit from the various services within the realm of waste management. We offer assistance when it comes to the requisite notifications and disposal certificates. If requested, an experienced partner laboratory will analyse waste samples in reference to their environmental and legal conditions for disposal.

All of the K+S Entsorgung sites feature excellent traffic and transport connections. Based on our many years of experience, we are well prepared to offer logistics support to our customers. We provide these services in several European countries, either via our own agencies or those of our partners.

K+S Entsorgung ensures reliable raw materials and waste management with consistent process safety.







K+S Entsorgung GmbH

Bertha-von-Suttner-Straße 7, D-34131 Kassel
Phone +49 561 9301-1575 Fax +49 561 9301-1714
entsorgung@k-plus-s.com www.ks-entsorgung.com



