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ALTEK have always believed the need to use salt when operating Tilt Type Rotary Furnaces for optimum control and maximum recovery of aluminium from drosses and scraps. They have addressed the big issue of salt slag disposal by developing and ‘in-house salt slag recycling solution’ to extract aluminium, recover the salts and turn non-metallic “waste” into saleable products.

THE BENEFITS..

→ **On site processing** provides excellent operational control
→ **Reduced transportation costs** from not having to ship material to and from reprocessors
→ **Maximise aluminium recovery** by recycling the salt slag in house
→ **Improved flexibility & control** in your operations
→ **97% Salt Recovery** in the same KCl:NaCl ratio and particle size
→ **Environmentally friendly** solution
→ **Multiple model sizes** starting at 5,000tpy and increasing in 5,000tpy intervals
→ **Saleable end product** into several available markets such as cement, glass and steel
→ **No waste** solution to a global problem
The Crushing...

Pressed salt slag block

Ferrous

Aluminium

Non-Metallic Product

The AluSalt Plant...

AluSalt™ is ALTEK’s economically viable solution to the global issue of salt slag (salt cake) processing and can be set up locally within a company’s curtailage. The benefits this can provide, operationally and financially, are significant and welcomed addition to the aluminium industry. AluSalt™ is the first aluminium salt cake processing plant of its kind to offer economic, efficient recycling of salt slag for small to medium volumes at source. Wet Processing incorporates multi-pass leaching and filtration for separation of soluble/insoluble components including Al2O3 and other non-metallic products through 5 distinct sections: Feeding, Leaching, Filtration, NMP Treatment and Re-crystallization of the salt.

Crushed and segregated NMP

Dried NMP material with very low chloride levels suitable for resale in various industries such as cement, glass and steel industries

High quality salt recovered in the same KCl:NaCl ratio of the salt slag input feed. The salt can be introduced straight back to the TRF.