



Reeli-Klean[®]

Reeli-Klean[®] is a unique line of multi-purpose melting preparations for aluminum, copper and zinc alloys.

The Reeli-Klean[®] line includes a broad range of products, each of which has exceptional properties for cleansing and removing impurities from molten non-ferrous alloys. Environmental and people friendly, Reeli-Klean[®] melt preparations minimize smoke opacity, annoying odor and stack emissions. Are all easy to use and have universal application in nearly all types of furnaces. These products reduce metal dross by promoting thorough separation of metal and oxides in dross. Slag buildup is softened resulting in reduced cleaning costs and extended furnace life.

General Directions for Use

- MELT

Typical quantity of Reeli-Klean[®] required is 0.1% of the material's weight to be charged. Very clean charge material requires less, very dirty, a little more. Evaluation of processed dross can be used as an indicator. Fast meltdown minimizes generation of oxides. Always wait until a liquid heel is present before adding product to crucible.

The above directions are very general and attempt to cover the large number of different furnace types and layouts. a specific user's plan can be supplied upon request.

- MELT TRANSFER

Quantity of Reeli-Klean[®] required to diminish contained and generated contaminants during transfer of melt will vary depending on turbulence and cleanliness of melt. a dosage of 0.1% of metal transfer weight can be used as an initial quantity. Evaluation of processed dross can be used as an indicator. Best results are obtained when Reeli-Klean[®] is added at regular intervals to the metal stream. Continued overflow diminishes the buildup of metal foam. Prior to removal, intensively stir the dross to allow any entrapped metal to return to the melt. Remove dry, low metallic, fast cooling dross with preheated tool. Specific information can be found on individual technical data sheets.

- FURNACE CLEANING

Regular use of Reeli-Klean[®] as a melting preparation diminishes the need for separate, intensive wall cleaning operations. When rapid results are needed, Reeli-Klean[®] can be applied directly to the oxide buildup in a reveratory furnace. After a reasonable soaking time to soften the buildup, the walls can be easily scraped. Cleaning plans specific to the condition of and type of furnace can be supplied on request.

Features & Benefits of Reeli-Klean[®] AL-510

- MELT QUALITY



Reeli-Klean[®] AL-510 offers possibility of a simple alternative treatment to melts in crucibles, ladles and dip-out wells. In addition, it is very effective as a non-polluting, oxide gathering cover, in combination with rotary impeller technology.

- SCOPE OF APPLICATION

Reeli-Klean[®] AL-510 Melt Treatment Product is suitable for application as a melting preparation in furnaces commonly used for melting aluminum. Reduction of metallic content in drosses generated on melts and a transfer points is another effective application of Reeli-Klean[®]. This product can also be used to soften existing oxide buildup and simplify removal from furnaces of ladles. Reeli-Klean[®] AL-510 is suitable for use in all the major casting processes. Reeli-Klean[®] AL-510 is intended for use with non-modified or sodium (Na) modified aluminum-silicon alloys. A partial list includes alloy 319, 355, 356, 357, 360, 380, 383, and 390. Alloys from certain other series can be melted with Reeli-Klean[®]. Like all Reeli-Klean[®] products, it is multiple purpose.

Features & Benefits of Reeli-Klean[®] AL-516

- MELT QUALITY

Reeli-Klean[®] AL-516 offers possibility of effective removal of contaminants from melt and is an excellent furnace conditioning melt treatment. Very effective as a non-polluting, oxide gathering cover in combination with rotary impeller technology.

- SCOPE OF APPLICATION

Reeli-Klean[®] AL-516 Melt Treatment Product is suitable for application as a melting preparation in furnaces commonly used for melting aluminum. Reduction of metallic content in drosses generated on melts and at transfer points is another effective application. This product can also be used to soften existing oxide build-up and simplify removal from furnace or ladles. Reeli-Klean[®] AL -516 is suitable for use in all the major casting processes and is intended for use with non-modified or sodium (Na) modified aluminum-silicon alloys. A partial list includes alloy 319, 355, 356, 357, 360, 380, 383 and 390. Alloys from certain other series can be melted with Reeli-Klean[®] AL- 516. Like all Reeli-Klean[®] products, it is multi-purpose.

Features & Benefits of Reeli-Klean[®] AL-542

- MELT QUALITY

Reeli-Klean[®] AL-542 minimizes loss of strontium (Sr) while achieving maximum cleansing activity during meltdown. Excellent product for processing ship from machining operations. Reeli-Klean[®] AL-542 can be injected.

- SCOPE OF APPLICATION

Reeli-Klean[®] AL-542 Melt Treatment Product is suitable for application as a melting preparation in furnaces commonly used for melting aluminum. Reduction of metallic content in drosses generated on melts and at transfer points is another effective application. This product can also be used to soften existing oxide build-up and simplify removal from furnace or ladles. Reeli-Klean[®] AL-542 is suitable for use in all the major casting processes and is intended for use with non-modified or strontium (Sr) modified aluminum-silicon alloys. A partial list of the most popular alloys includes alloy 319 and



356. Other 300 series alloys and alloys from certain other series can be melted with Reeli-Klean[®] AL-542. Like all Reeli-Klean[®] products, it is multi-purpose.

Features & Benefits of Reeli-Klean[®] AL-5048

- MELT QUALITY

Reeli-Klean[®] AL-5048 offers possibility of effective removal of contaminants from melt and is an excellent furnace conditioning melt treatment. Very effective as a non-polluting, oxide gathering cover in combination with rotary impeller technology.

- SCOPE OF APPLICATION

Reeli-Klean[®] AL-5048 Melt Treatment Product is suitable for application as a melting preparation in furnaces commonly used for melting aluminum. Reduction of metallic content in drosses generated on melts and at transfer points is another effective application. This product can also be used to soften existing oxide build-up and simplify removal from furnace or ladles. Reeli-Klean[®] AL-5048 is suitable for use in all the major casting processes and is intended for use with non-modified or sodium (Na) modified aluminum-silicon alloys. A partial list includes alloy 319, 355, 356, 357, 360, 380, 383 and 390. Alloys from certain other series can be melted with Reeli-Klean[®] AL-5048. Like all Reeli-Klean[®] products, it is multi-purpose.

Features & Benefits of Reeli-Klean[®] AL-5054

- MELT QUALITY

Reeli-Klean[®] AL-5054 offers possibility of effective removal of contaminants from melt and is an excellent furnace conditioning melt treatment. Very effective as a non-polluting, oxide gathering cover in combination with rotary impeller technology.

- SCOPE OF APPLICATION

Reeli-Klean[®] AL-5054 Melt Treatment Product is suitable for application as a melting preparation in furnaces commonly used for melting aluminum. Reduction of metallic content in drosses generated on melts and at transfer points is another effective application. This product can also be used to soften existing oxide build-up and simplify removal from furnace or ladles. Reeli-Klean[®] AL-5054 is suitable for use in all the major casting processes and is intended for use with non-modified or sodium (Na) modified aluminum-silicon alloys. A partial list includes alloy 319, 355, 356, 357, 360, 380, 383 and 390. Alloys from certain other series can be melted with Reeli-Klean[®] AL-5054. Like all Reeli-Klean products, it is multi-purpose.

Features & Benefits of Reeli-Klean[®] ZN-750

- MELT QUALITY

Reeli-Klean[®] ZN-750 is primarily used for zinc and zinc alloys. Reeli-Klean[®] ZN-750 cleanses melt by binding contaminants and insures a consistently higher standard of melt quality. The melt purification process is started during meltdown. It improves metal fluidity and mechanical properties. Minimizes the burnout of magnesium when properly



used. Reeli-Klean[®] ZN-750 is very effective as a non-polluting, oxide gathering cover. It produces a fast forming dry, low metallic dross with low exothermic heat. Metallic content is stabilized. Skimmed dross cools quickly in the transport pan leaving more metal retained in the bath.

- SCOPE OF APPLICATION

Reeli-Klean[®] AZ-750 Melt Treatment Product is suitable for application as a melting preparation in furnaces commonly used to melt zinc and zinc alloys. Reduction of metallic content is in drosses generated on melts and at transfer points is another effective application. Reeli-Klean[®] ZN-750 can also be used to soften existing oxide build-up and simplify removal from furnaces or ladles. Specific user's plans and applications for various types of furnaces can be supplied upon request.

Features & Benefits of Reeli-Klean[®] CU-711

Reeli-Klean[®] CU-711 Multiple Purpose Melting Preparation for aluminum-bronze and manganese-bronze alloys is especially when used in induction furnaces. Conventional products are generally applied after the meltdown. Reeli-Klean[®] CU-711[®] is intended to be used during meltdown, replacing covering products, drossing fluxes, greatly simplifying the operation and extending potential furnace lining or crucible life. Regular use of Reeli-Klean[®] CU-711 will enable the melter to 1) supply cleaner metal to the casting line, 2) improve overall yield by reducing metallics in the dross, and 3) aid in controlling and removing slag build-up.

- MELT QUALITY

Reeli-Klean[®] CU-711 cleanses melt by binding contaminants and insures a consistently higher standard of melt quality. Melt purification process is started during meltdown. Reeli-Klean[®] CU-711 improves metal fluidity, casting integrity and mechanical properties and is very effective as a non-polluting, oxide gathering cover.

- DROSS QUANTITY AND METALLIC CONTENT

Reeli-Klean[®] CU-711 produces a fast forming, dry, low metallic dross with low exothermal heat. Metallic content is stabilized. Skimmed dross cools quickly in the transport pan. More metal is retained in bath.

- SPECIAL FEATURES

Reeli-Klean[®] CU-711 offers the possibility of cleaning aluminum-bronze and manganese-bronze alloys.

All products are sold on the understanding that the user is solely responsible for determining their suitability for the intended use. All information given and recommendations made herein are based upon our research and are believed to be accurate, but no guarantee, either expressed or implied, is made with respect thereto or with respect to the infringement of any patent. NEITHER MINERALS TECHNOLOGIES NOR ANY OF ITS AFFILIATES MAKES NO WARRANTY OF MERCHANTABILITY OR SUITABILITY FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH ANY SALE OF THE PRODUCTS DESCRIBED HEREIN. Inconsistent terms and conditions contained in the buyer's purchase order shall not be binding on MINERALS TECHNOLOGIES unless reflected in writing signed by MINERALS TECHNOLOGIES' representative. The information contained herein is not to be copied or otherwise used in any publication in whole or in part, without written permission from MINERALS TECHNOLOGIES.