

PRODUCT DATA SHEET

CERAFLUX GR-2712 GRANULATED SODIUM BASED MODIFYING FLUX FOR HYPOEUTECTIC ALUMINIUM SILICON ALLOYS

PRODUCT

CERAFLUX GR-2712 is a modifying flux used in hypoeutectic aluminium silicon alloys. Modifying flux consist of sodium salts.

PURPOSE

The purpose of modifying hypo-eutectic alloy is to change the acicular form of silicon to a spherical or globular form. The modification treatment improves the mechanical properties in both the as cast and heat-treated condition. Conventionally Al-Si Hypoeutectic alloys are treated with salt base modifiers to obtain the desired structure.

CERAFLUX GR-2712 melts approx. at 680°C and give effective modification effect when treated at temp. in the range of 730-780°C

ADVANTAGES

Casting with improved and consistent mechanical and metallurgical properties.
Improves as – cast mechanical properties such as tensile strength and elongation.
The modified metallurgical structure and improved distribution of silicon phase gives better machine-ability and improved surface texture.

APPLICATION:

Prepare the desired alloy composition. Follow the normal fluxing and cleansing procedure recommended for using suitable flux from CERAFLUX-11/ GR-2516. Degas the melt with a suitable grade of D’GASSER and dross off using small quantity of a suitable flux from CERAFLUX-11/ GR-2516.

After degassing operation, add Tibon-5/5E as per requirement. After grain refinement, add pre-calculated quantity of CERAFLUX- GR 2712 depending on the melt size. Hold the metal until all the salt is melted over the surface. Wait for minimum 10 minutes for modification effect to take place. Rabble it to ensure homogeneity of the composition, then add small quantity of CERAFLUX-11/GR-2516. Skim cleanly and pour without delay.

APPLICATION RATE: 0.5-1.0% of the metal weight depending upon type of alloy.

APPLICATION TEMPERATURE: 730-780°C



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BENEFITS

CERAFLUX GR-2712 specially developed to be environmentally friendly.

It is dust free in use and emits low fume during application.

Granulated fluxes can be used at reduced application rates compared to powder fluxes.

Granular ensuring uniform chemical properties throughout flux.

STANDARD PACKING: 25 kg polyethylene lined paper sacks.

PRECAUTION

FLUX IS HYGROSCOPIC IN NATURE SO STORE IT IN DRY ATMOSPHERE.

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