



630 Oakmont Lane ♦ Westmont, IL 60559 ♦ 1-800-323-6863 ♦ ha-international.com

## WF 44

### Product Features

WF 44 is a cleaning and degassing flux for use with all aluminum alloys including aluminum magnesium alloys, high purity alloys and titanium boron master alloys.

### WF 44

This product has been formulated for use in the Flux Injection Process in which flux is injected below the surface of the metal using nitrogen/argon gas as a carrier. The process ensures very efficient use of the flux and enhances metal cleanliness and yield.

The Flux Injection Process is simple to operate and generates lower emissions than conventional methods. In addition to the very efficient cleansing of the metal, another benefit of the process is a powerful degassing effect which eliminates the need for a separate degassing operation.

### WF 44 and the Flux Injection Process

- Can be applied to a wide range of melting units from small crucibles to very large central melting furnaces.
- WF 44 is a sodium and calcium free and may be used for aluminum magnesium alloys and high purity alloys.
- WF 44 is a free flowing flux special formulated for flux injection.
- WF 44 separates oxides and impurities contained in the molten metal and removes gas.
- WF 44 has a tendency to reduce sodium levels in the metal slightly, thus reducing the incidence of casting cracks due to sodium presence.
- WF 44 produces a dry dross low in aluminum content, facilitating easy removal from the melt surface.
- WF 44 and the Flux Injection Process thoroughly stirs the metal so that manual stirring is unnecessary.

### Directions for use:

1. The amount of flux to be applied will vary depending on the degree of contamination in the melt, but is generally .05% to .2% of the metal charge.
2. Flux is injected with the Wedron Flux Feeder when the metal temperature is within the range of 1430 -1560 F.
3. The flux is capable of working from 1365 degrees F upwards with lower metal losses when used at the higher temperatures.
4. When the flux/oxide mixture has dried to powdery dross, remove it with perforated skimmers and collect it in reclaimers for optimum metal recovery.
5. Ensure that the injection lance is cleaned frequently to avoid any restrictions of the bore.
6. Before and after insertion of the lance into the molten metal, ensure that nitrogen is flowing through the lance to avoid clogging.

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Packaging:

Available in 100# Boxes and 500 # boxes

Storage Guidelines:

Avoid extremes of temperature during storage.

Safe Handling:

Refer to the Material Safety Data Sheet for additional information.

Technical Service

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Date: 8/9/2010 Author: LCO

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