

## Handy Hi-Temp<sup>®</sup> Bronze Flux

### ***GENERAL DESCRIPTION***

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Handy Hi-Temp Bronze Flux is water based active fluoride/borate-type flux in paste form, which has been specially formulated to give excellent adhesion when dipped or brushed on parts. It is recommended for use with filler metals that flow between 1600°F (870°C) - 2000°F (1100°C). The flux provides excellent protection of parts up to 2000°F (1100°C).

### ***PRODUCT APPLICATION***

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Handy Hi-Temp Bronze Flux is primarily used as a general purpose brazing flux in brazing applications involving brazing of steel, copper, copper alloys, nickel, and nickel alloys with high melting brazing filler metals. This product is not recommended to use for aluminum bronze or other aluminum alloy brazing applications. Handy Hi-Temp Bronze Flux is suitable for use with most heating methods including torch, induction or furnace. This product exhibits excellent adhesion, less spattering and oxide removal capabilities during brazing process. If stored for a long period of time, some separation within the flux may occur. In such case stir the flux up until proper consistency is restored.

### ***POST CLEANING***

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This product is corrosive and a post braze cleaning or rinsing operation is required. Mechanical and/or abrasive means i.e. wire brush, bead blasting etc., may be needed to remove the flux residue.

### ***WARRANTY & STORAGE***

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Lucas-Milhaupt, Inc. warrants their Water Based Fluxes for twelve months from the date of shipment if stored in the original, unopened container. Optimal storage conditions would be 65°F (18°C) - 75°F (24°C), cool and dry.

Twelve months should not be interpreted as the shelf or useful life of the product unless actual test results indicate unsatisfactory performance for the intended application. Flux beyond the warranty may be reconstituted to a working consistency by warming in a water bath and or by additions of distilled or de-ionized warm water.

Flux may require mixing, dilution or warming to regain its normal consistency prior to use. Flux, when placed on a U.S. standard 40 mesh (425 micron) sieve conforming to ASTM E11 and worked lightly with a brush shall pass completely through the sieve. If the flux has partially coagulated in the container, the flux may, before conducting the test, be warmed in a water bath until it has returned to its normal consistency.

### ***AVAILABLE PACKAGING***

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Handy Hi-Temp is available in a variety of packaging options including 25 lb and 50 lb containers.

### ***SPECIFICATIONS***

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Handy Hi-Temp Bronze Flux conforms to the following specifications: N/A

## ***APPLICABLE PRODUCT CODE(S)***

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The applicable Lucas-Milhaupt product code(s) for this technical data sheet: 82-087.

## ***SAFETY INFORMATION***

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The operation and maintenance of brazing equipment or facility should conform to the provisions of American National Standard (ANSI) Z49.1, "Safety in Welding and Cutting". For more complete information refer to the Material Safety Data Sheet for Handy Hi-Temp Bronze Flux.

## ***WARRANTY CLAUSE***

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