

# APPLICATION DATA SHEET

## BLACKFAST 451 ALUMINIUM CONDITIONER

USE: 30% solution in water.

APPLICATION: All Aluminium surfaces will require conditioning before blacking. Immerse the prepared Aluminium component for between 30 seconds and 1 minute into a 30% solution of Blackfast 451 in water, heated to 30°C. When an even, pencil lead, grey colour is achieved remove the component. Wash all traces of the conditioning solution from the Aluminium surface prior to immersion in the blacking solution.

Local exhaust ventilation is recommended. The etching and conditioning solutions contain Sodium Hydroxide which react with Aluminium producing Hydrogen gas. Hydrogen can form explosive mixtures in air.

TANK MATERIAL Tanks should be of polypropylene.

SOLUTION STRENGTH CONTROL Take a 10ml sample of blackfast 451 from the tank. Add a few drops of phenolphthalien indicator solution and the colour changes to a deep pink. Titrate without delay with normal solution of Hydrochloric acid. The colour change is from pink to milky white. An addition of 30ml of Hydrochloric acid indicates the working solution is satisfactory. For each 1ml shortfall it is necessary to top up the bath with 1% Blackfast 451 concentrate.

PRODUCT SAFETY DATA SHEET: A safety data sheet is available. This solution is corrosive and contains Sodium Hydroxide. Refer to data sheet before use.

Blackfast 451 is part of the Blackfast range of products for the treatment of iron, steel and aluminium at low temperatures.

Blackfast Chemicals continues to improve the quality and performance of its range of products and reserves the right to modify product formulations without prior notice.

August 2015