

# APPLICATION DATA SHEET

## BLACKFAST 933 WATER-BASED CORROSION PREVENTATIVE

USE: Operate at a dilution of 15-20% depending upon the degree of corrosion protection required. Fill the mild/stainless steel tank three-quarters full with warm water and add Blackfast 933 slowly whilst mixing vigorously.

APPLICATION: Following the water rise immediately after the blacking operation, the components are immersed in the tank of Blackfast 933 either in a basket or suspended individually for five minutes. Agitate small items and rotate those with complicated shapes. They are then placed on a draining board.

To accelerate the drying time and improve the quality of the corrosion preventative film, operate the bath at 60-70°C. Allow 45 minutes drying time before handling the components. Tests indicate that corrosion protection improves dramatically if components are dried quickly at elevated temperatures 5-10 minutes at 80°C. Strong air currents should not be used as they blow the emulsion off the item.

The solution should be agitated during use.

TANK  
MAINTENANCE

The bath level needs to be topped up every day to replace water losses due to evaporation. In hard water areas the life of the bath will be extended by using demineralised water. Viscous scum will need to be removed regularly.

The operating life of the bath will be determined by the amount of work processed and can be dramatically shortened if a quantity of blacking solution is "carried over" into the bath. An exhausted bath is indicated by a rapid increase in solution viscosity to a consistency of yoghurt. The solution will then need to be replaced.

SOLUTION  
STRENGTH  
CONTROL

Fill a 100cc graduated measuring cylinder with 90cc of Blackfast 933 emulsion to be determined. Add 10cc of 1 molar aqueous hydrochloric acid and shake the cylinder for 1 minute. Allow the cylinder to stand overnight. The following day determine the amount of separated oil in ml. The % concentration by volume then = ml of separated oil x 100/90.

Addition of new Blackfast 933 should be made by pre-mixing a concentrated solution of equal parts of 933 and warm water. This emulsion is added to the tank whilst mixing.

Shelf life of the concentrate solution at ambient temperature: 1 year.

PRODUCT SAFETY  
DATA SHEET:

A safety data sheet is available.

Blackfast 933 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.

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