



# METSOAK AK3945

## High Strength Immersion Degreaser And Rust Remover



### PRODUCT DESCRIPTION

**METSOAK AK3945** is a highly alkaline powdered immersion degreaser and rust remover designed to remove contamination and corrosion typically encountered in the engineering, manufacturing, and reconditioning industries. It contains a powerful blend of caustic alkalis and sequestrants designed to penetrate areas of heavy contamination and remove soils including rust, oil, oxidised grease, paint, and engine deposits. The 100% active powdered formulation has been designed to create a stable, long lasting working solution when dissolved in water, and will continue to provide excellent cleaning performance well beyond the life of similar products.

**METSOAK AK3945** contains a powerful blend of chelating agents and surfactants that make it a highly effective treatment for the removal of surface rust and oxidation. The unique formulation lifts surface rust before irreversibly binding holding the iron within solution to prevent redepositing. This highly efficient method can be used as an alternative to acid-based rust removers reducing the risk hydrogen embrittlement in some sensitive alloys.

**METSOAK AK3945** is suitable for use on ferrous metals however it is not generally suitable for use on non-ferrous metals which may be corroded by extended contact. It is not suitable for use on aluminium, zinc, copper, or their alloys which are likely to be significantly corroded.

### FEATURES & BENEFITS

- Powdered product
- Readily soluble
- Heavy duty formulation
- High levels of sequestrants
- Contains an advance surfactant package
- 100% active - can be diluted to required strength
- Easily diluted in water
- Penetrates areas of heavy contamination
- Efficient removal of rust and corrosion
- Effective degreasing with low foam production

### PHYSICAL CHARACTERISTICS

Appearance  
Odour  
pH (2% solution)  
Solubility

White powder  
Bland  
12.0 - 13.0  
Soluble in water at recommended usage concentrations

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## PRODUCT DATA SHEET

**B3945**

### DIRECTIONS FOR USE

**METSOAK AK3945** is typically used dissolved in water to create a detergent working solution suitable for use in immersion cleaning applications. Caution should be taken when handling as the product generates heat when mixed with water. Always dissolve by carefully adding B3945 directly to cold water to avoid localised boiling and splashing. Do not make additions of the product directly to hot solutions.

Dosing rates are dependent upon the degree and type of soiling to be cleaned. For most general cleaning applications concentrations of 10 - 100 grams per litre are recommended but this can be reduced or increased based on performance. Where suitable equipment is available the working solution can be heated to a maximum temperature of 80°C to increase cleaning performance and decrease processing time. For best results it is recommended that the working solution be applied at operating temperatures between 70 - 80°C.



Contact times will vary depending on the level of contamination and overnight soaking may be necessary for stubborn deposits. Following cleaning all it will be necessary to rinse all components thoroughly with fresh water to remove any chemical residue and prevent alkali staining.

### SPECIAL STORAGE

Store in original containers away from direct sunlight. Protect from freezing.

### HEALTH AND SAFETY

Refer to separate Material Safety Data Sheet (MSDS) for further information.

### PACKAGING

**METSOAK AK3945** is available in the following pack sizes:

Product Code	Size	Container
B3945-25	25 Kg	Bucket



# PRODUCT DATA SHEET

# B3945

## SOLUTION CONTROL METHOD

The following method can be used to determine the concentration of B3945 within a working solution by titration.

### Apparatus

Measuring Cylinder  
Conical Flask  
Burette  
Burette Filler

### Reagents

Sample of bath solution to be tested (at room temperature)  
Phenolphthalein indicator  
1.0N Hydrochloric Acid (HCl)



### Method

1. Measure out 10ml of the product to be tested into the measuring cylinder and transfer to the conical flask.
2. Add 100ml clean water to the conical flask.
3. Add a few drops of phenolphthalein indicator. The solution should turn pink.
4. Titrate with 1.0N HCl until a permanent colour change of pink to colourless is observed.
5. Record the volume of 1.0N HCl added as **T**.
6. Use the calculation below to determine the amount of **METSOAK AK3945** in solution.

$$\text{Concentration B3945 (grams / litre)} = T \times 5.3$$

7. Alternatively consult the graph below to determine the concentration of **METSOAK AK3945** in solution.

### B3945 Concentration by Titration

