CLEAN

TECHNICAL DATA SHEET

METSOAK AK3921

B3921

Heavy Duty Caustic Based Immersion Degreaser



DESCRIPTION

METSOAK AK3921 is a heavy duty, powdered, immersion cleaner designed to remove greases, oils and carbonised soils typically encountered in the engineering, manufacturing, and transport industries. It has been designed as a 100% active powdered product and is typically used diluted in water within immersion cleaning systems. It contains a powerful blend of caustic alkalis and advanced surfactants designed to penetrate areas of heavy contamination and remove a wide range of contaminants.

METSOAK AK3921 is formulated for heavy duty cleaning and effectively removes carbonised oils, greases, and many loose paint finishes found in workshop environments. The versatile formulation can also be used in a wide range of cleaning applications where a high level of alkalinity is required. It has been used extensively in the food industry for the removal of fats and greases from kitchens, grease traps, and food preparation equipment. It is also used in the building industry for cleaning concrete floors and surfaces.

METSOAK AK3921 is suitable for use on all ferrous metals, concrete, and some plastic materials. It is not suitable for use on non-ferrous metals, particularly aluminium and zinc as these materials will be significantly corroded on contact.

FEATURES & BENEFITS

- Powdered product
- 100% active - can be diluted to required strength
- Readily soluble
- Easily diluted in water
- Contains surfactants and sequestrants
- High performance cleaning and a long tank life
- Advanced alkalis blend
- Rapid soil penetration and powerful cleaning action
- Suitable for use at temperatures up to 90°C
- Reduced processing time at elevated temperatures

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CHARACTERISTICS

Appearance:	Free-flowing pale-yellow powder
Odour:	Bland
pH (5.0% solution):	13.0–14.0
Solubility:	Soluble at recommended usage concentrations

STORAGE

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

DIRECTIONS FOR USE

METSOAK AK3921 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 B3921 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 50 - 70 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 90°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 - 90°C.

Typically contact times of 15 - 30 minutes are sufficient however 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.

For cleaning grease traps the product should be sprinkled directly on top of the build up and left to stand. Once the fat has broken down sufficiently the residue can be rinsed with fresh water.

HEALTH & SAFETY

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

PACKAGING

Product Code	Size	Container
B3921-25	25 Kg	Bucket

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SOLUTION CONTROL METHOD

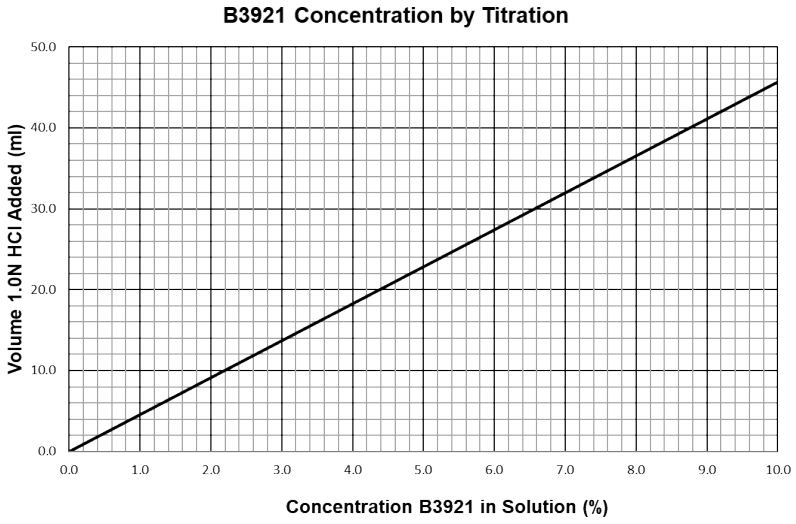
The following method can be used to determine the concentration of B3921 within a working solution by titration.

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 25ml of the product to be tested into the measuring cylinder and transfer to the conical flask.
2. Add a few drops of phenolphthalein indicator. The solution should turn pink.
3. Titrate with 1.0N HCl until a permanent colour change of pink to colourless is observed.
4. Record the volume of 1.0N HCl added as T.
5. Use the calculation below to determine the percentage of METSOAK AK3921 in solution. Concentration B3921 (%) = T x 0.219
6. Alternatively consult the graph below to determine the concentration of METSOAK AK3921 in solution.



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