

Technical Information

Enzyme Cleaner AZY is a specifically formulated broad spectrum enzymatic cleaner degreaser for cleaning of aluminium parts and components.

Features of **Enzyme Cleaner AZY** include:

- ? Rapid bio-enzymatic action.
- ? Formulated for unique product flexibility giving dramatic cleaning power and better cleaning quality.
- ? Replacing the need for caustic/corrosive/toxic degreasers.
- ? Rapid removal of buffing compounds and lubricants.
- ? Can be used on brightened aluminium without tarnishing or etching.

Typical Properties

Enzyme Cleaner AZY is formulated with speciality environmentally friendly surfactants, sequesterants, enzymes and stabilizers.

Colour:	Clear Amber/Brown Liquid
pH:	8
Specific Gravity:	1.02
Solubility:	Soluble at all dilutions in water.

Background

Enzyme cleaning products such as **Enzyme Cleaner AZY** can be used when a rapid clean/degrease is required.

Enzyme Cleaner AZY offers many advantages over traditional aluminium cleaning systems, including cost savings, lower environmental impact and enhanced user safety. The enzyme system in **Enzyme Cleaner AZY** has been chosen specifically to breakdown oils/fats and proteins.

Why Enzymes?

Essentially, the soil systems on metals such as aluminium are made up of films of oils, fats, greases and proteins. These films are “bonded” onto the metal surface by amino acids and fatty acids.

Most traditional cleaners based on detergents, alkalis and solvents, emulsify or solubilize some, but not all of the soil residues, but they do not break all the amino/fatty acid bonds holding the soil onto the metal.

Mode of Action

The enzymes contained in **Enzyme Cleaner AZY** ‘digest’ the bonds between the fatty acids and the substrate completely, thus leaving a clean surface. Enzymes are basically chemical catalysts that speed up the breakdown of organic soil systems without any effect to the enzyme itself. Enzymes are non-toxic, non-irritating and essentially non-hazardous.

Why Use Enzyme Cleaner AZY?

Enzyme Cleaner AZY has been designed as a broad spectrum cleaner for grease, fat, oil and many common soil systems. It will clean on contact. **Enzyme Cleaner AZY** has been formulated with biodegradable, environmentally friendly surfactants, enzymes and degreasers to give an excellent clean without utilizing solvents, acids or corrosive alkalis. **Enzyme Cleaner AZY** will dissolve and solubilize grease and oil films rapidly without damaging the aluminium surface. **Enzyme Cleaner AZY** also contains speciality additives that boost the enzyme performance and enhance its active working life.

Application

Bath concentration:	30-60g/L
Optimum temperature range:	40-70°C
Optimum bath pH range:	pH 7-9
Cleaning time (depending on the degree of soiling):	1-30 minutes

Other Benefits of Enzyme Cleaner AZY

- ? Safe to store.
- ? Easier COSHH compliance, environmentally positive.
- ? Safer in use, not corrosive or hazardous for use at user concentrations.
- ? Will not affect equipment.
- ? The **Enzyme Cleaner AZY** and the removed soil will biodegrade cutting disposal costs.
- ? **Clarizyme** enzyme system will continue to act on soils and will not be reacted out of the system as 'chemical systems' are.
- ? Phosphate and APEO free.