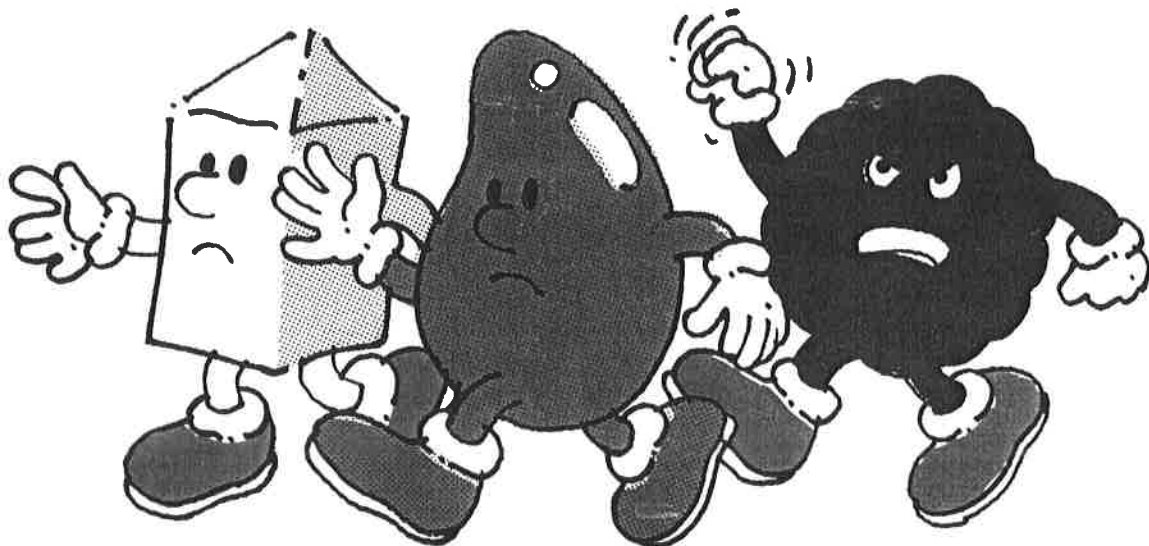


# ayrodev®

Process I

the unique process that  
gives a fast boost to  
insulation values in situ



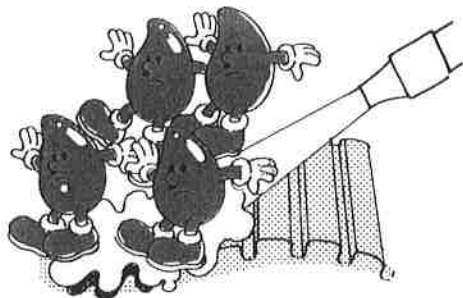
# The four materials that make it all possible

## Meggaboost

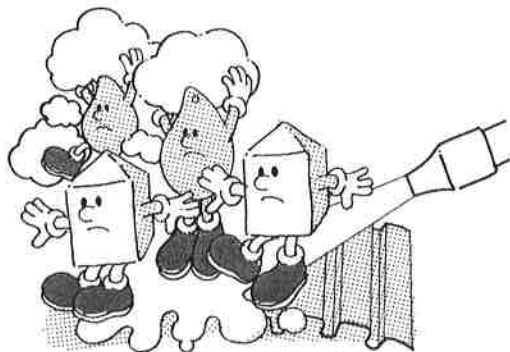
WORLD PATENTED



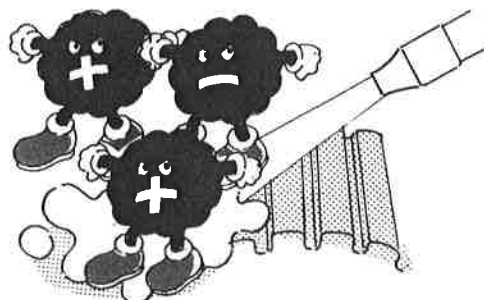
Meggaboost has revolutionised the whole concept of cleaning electrical machinery



1. It dissolves oil and grease without damaging insulation or old varnish.



2. Its surface active ingredient physically displaces water which is then removed by evaporation.



3. It depolarises and activates carbon deposits, making them easy to flush out.

New modified Meggaboost has been further improved in three ways.

1. Its already very low toxicity has been further reduced and it has been approved for use in submarines by the Royal Navy's Institute of Naval Medicine.

2. It is even more fire safe with a flash point increased to 42°C.

3. Solvent power has been increased by a further 5%.

These improvements have been made without affecting evaporation rate.

## Meggawash



- Washes out carbon deposits loosened by Meggaboost
- A powerful solvent for oil and grease deposits in its own right.
- New Meggawash has even lower toxicity and higher flashpoint than before.
- Flash point 42°C.

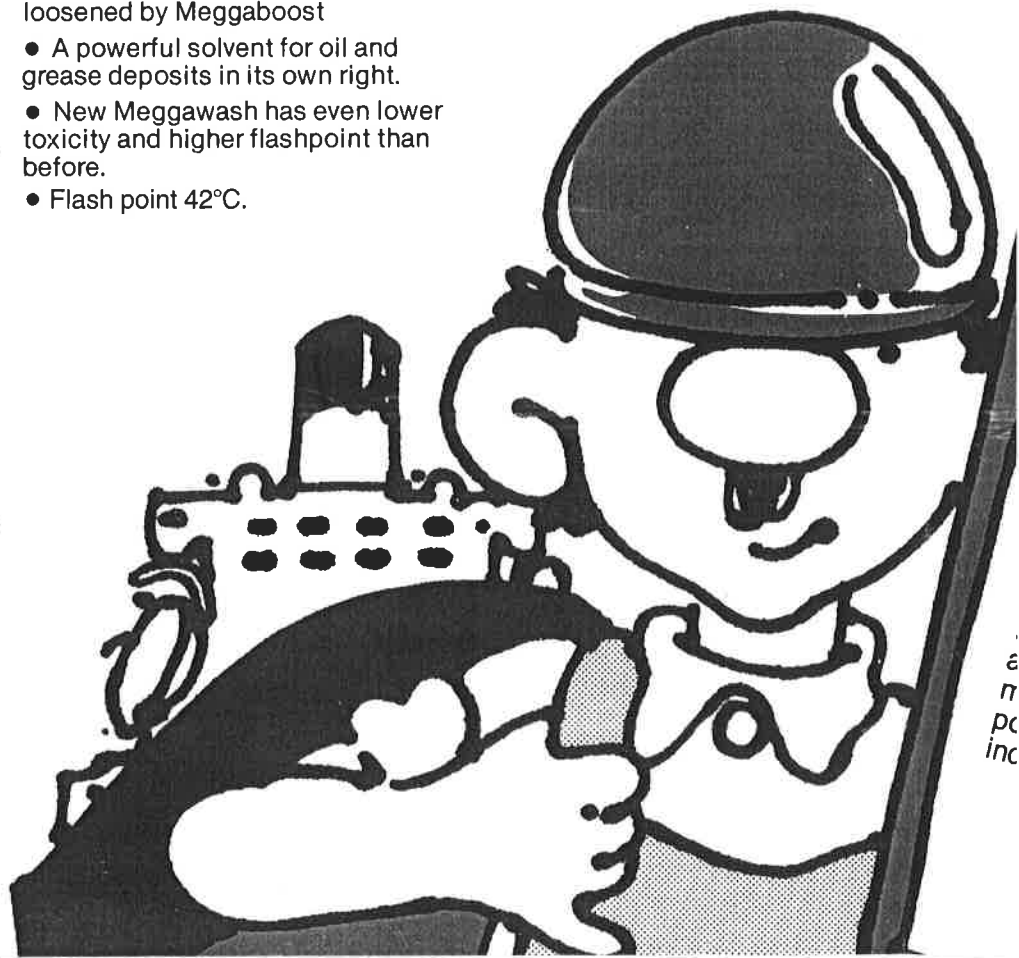
## Devolac & Salvameg



Fast-coating and high resistivity finishing lacquers. F.P. 37°C

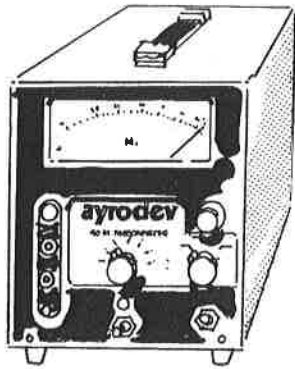
Provide a tough seal of high chemical and moisture resistance combined with high surface resistivity and anti-tracking properties. The materials are also fungicidal and particularly suitable for tropical service.

All materials used in Ayrodev Process I are compatible with one another.



# How to use Process I

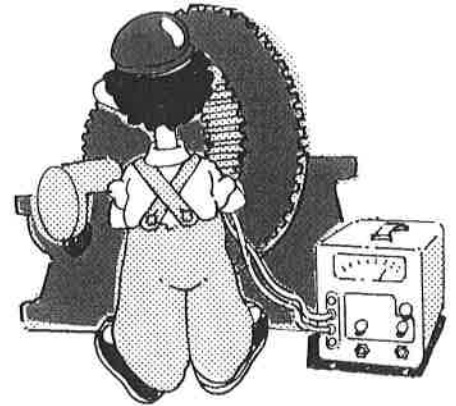
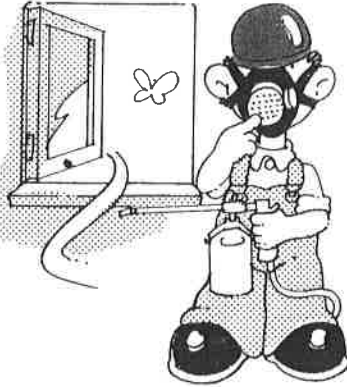
## Ayrodev<sup>®</sup> 40M meter



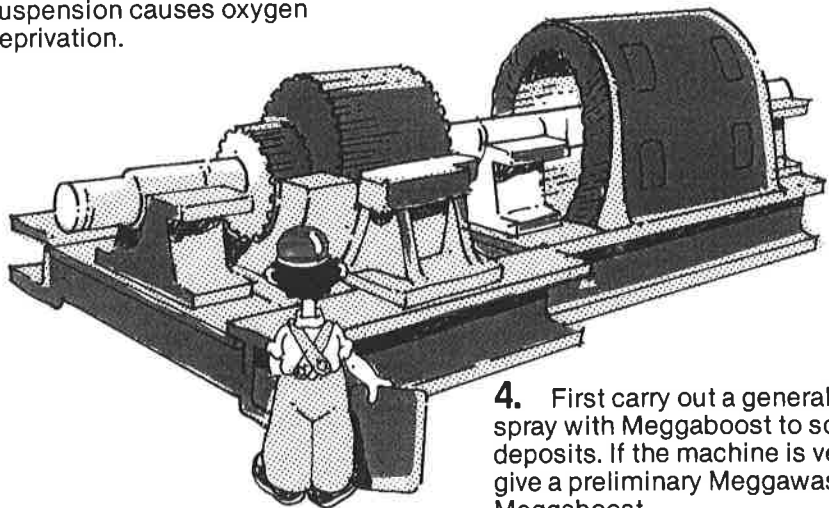
This high-sensitivity meter is an essential part of the success of Process I. It identifies the leakage paths causing the low insulation value and monitors the cleaning action. This is important because the apparent overall insulation resistance is governed by the lowest value path. The 40M gives an overall reading and identifies the individual critical areas.

## Process I

3. Couple on the 40M meter using the 50 voltage range and start to spray.



1. Ensure maximum ventilation and an air flow over the machine. Operators should wear filter respirators in a confined space. While Meggaboost is not, for all practical purposes, toxic, inhaling the spray in suspension causes oxygen deprivation.

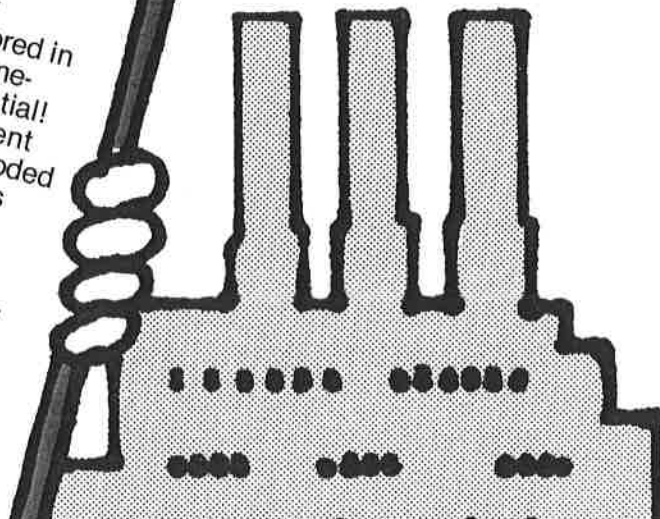
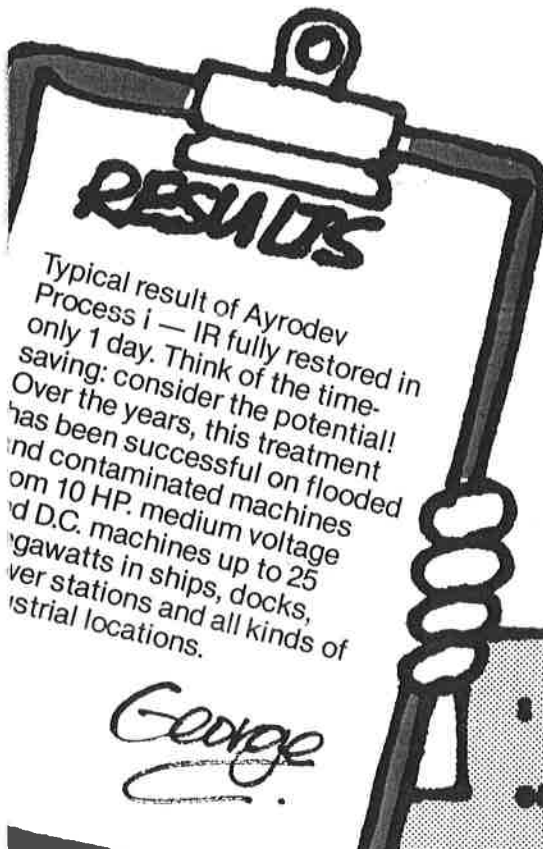


4. First carry out a general overall spray with Meggaboost to soften the deposits. If the machine is very oily give a preliminary Meggawash to save Meggaboost.

2. Full access to the contaminated windings is essential. Remove all covers and end shields etc., and split the yoke where possible. Remove any carbon brushes — Meggaboost will soften them.



5. Concentrate on the areas showing most insulation meter reaction. As each section becomes stable, move to another area. Where possible, rotate the workpiece from time to time.



6. When the overall stable condition is achieved allow the windings to dry for one hour, then note the reading. If the value has dropped, contamination is still present, though it has been temporarily insulated by Meggaboost (illus) Continue operation until a permanent value is achieved.

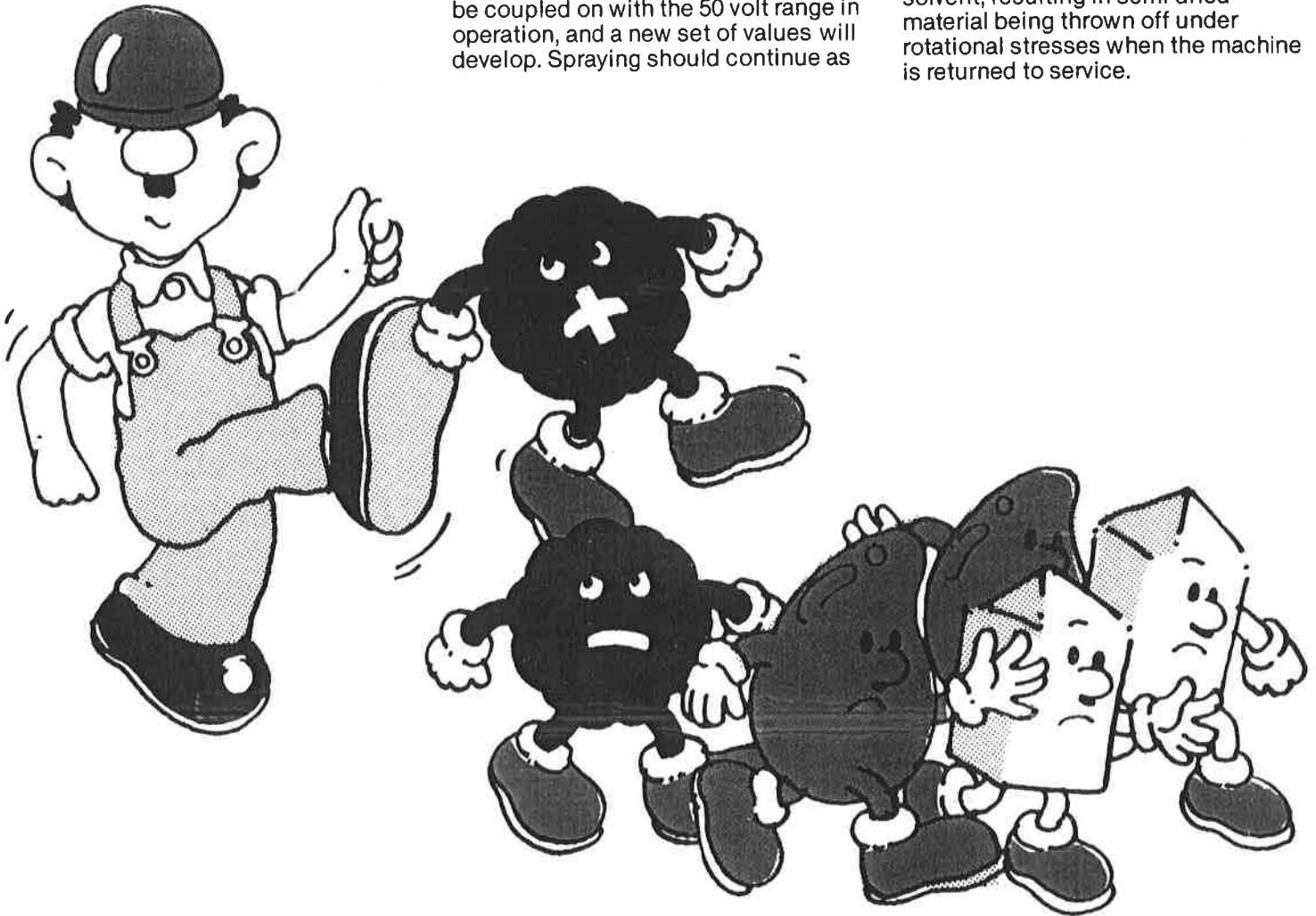


7. Commence spraying with Meggawash. This will flush out the loosened carbon in suspension. The Ayrodev 40M Insulation meter should be coupled on with the 50 volt range in operation, and a new set of values will develop. Spraying should continue as

indicated by the 40M meter until a stable reading is achieved, and the drainings show no stain on a clean white rag. The Meggawash should be allowed to dry. This operation can conveniently be expedited by a current of warm air, which also precludes the possibility of surface condensation of moisture in damp or humid conditions.

8. The sealing spray can now be applied, using alternative coats of Devolac and Salvameg. While these materials are touch-dry in 15 mins, experience has shown that the more time which can be permitted between coats, the better the results. It is suggested that a minimum of 3 hours is desirable, but this will be governed by the machine structure, temperature, humidity and ventilation.

Care should be taken to avoid heavy films resulting in runs, sags or beads, as these tend to skin-dry, trapping solvent, resulting in semi-dried material being thrown off under rotational stresses when the machine is returned to service.



Agents Stamp

**ayrodev**<sup>®</sup>

A.E.V PLC  
MARION STREET, BIRKENHEAD  
MERSEYSIDE UK. CH41 6LT