



# AGMAKLENZ 42W – DERUST, DECARBONISE, DEGREASE AND STRIP PAINT

## WHAT IS AGMAKLENZ 42W

AGMAKLENZ 42W has been used in soak tanks for the refurbishment of oil drilling tools for over 35 years. Effective against a variety of soils this powerful and reliable product is in constant daily use by multinational companies serving the world's oilfields.

AGMAKLENZ 42W is a highly alkaline powder concentrate formulated for the removal of oils, greases, carbon, rust, scale and paint. The cleansing action of AGMAKLENZ 42W is a detergent one; it penetrates surface films of many different types and mechanically lifts them from the underlying sound material, breaking them up and dispersing them into the body of the solution. Water softeners ensure that none of the product's powder is lost, even in the hardest waters, and dispersants ensure that contamination removed from dirty surfaces is held in solution to prevent resoiling.

## HOW TO USE AGMAKLENZ 42W

### DEGREASING

A warm solution containing 50g AGMAKLENZ 42W in a litre of water rapidly emulsifies simple films of oils and greases.

### REMOVAL OF CARBON, CARBONISED OIL AND PAINT

Concentrations between 50g/litre and 200g/litre heated to 90-100°C should be employed. The tank immersion technique is recommended in order to make maximum use of the heat available. Agitation of tanks either mechanically or by air steam assists in the breaking up of soils.

**Note:** It is important to take care when adding the AGMAKLENZ 42W powder to water. Avoid splashing of a strongly alkaline solution the powder should be added carefully and gradually.

### ALKALINE DERUSTING

AGMAKLENZ 42W at a concentration of 200g/litre is maintained at or near to a rolling boil in a suitable tank, where agitation may be applied either from compressed air or mechanical means. Rusty parts are immersed contained in basket work trays and allowed to soak for 10 minutes in the case of light flash rusting or for up to 45 minutes for severe corrosion and heat treatment scales.



After removal from the cleaning tank, parts should be rinsed immediately in hot water and either oiled or given an inhibitor treatment in order to prevent re-rusting. It should be realised that the chemically clean surface achieved by cleansing in AGMAKLENZ 42W is vulnerable to re-tarnishing.

#### **THE USE OF HEAT IS NOT ESSENTIAL!**

For each application above the use of heat is promoted and there is no doubt that the cleaning performance is enhanced with its presence, particularly in respect of speed. It should be noted however, that critical and an overnight soak does not impinge on production, the cost of heating a large immersion tank can be avoided which provides considerable savings.

#### **THE BENEFITS OF ALKALINE CLEANING**

Because the cleaning operation is a surface action, it ceases as soon as the base material is clean. There is no risk of dissolution or pitting of the base metal. There are no harmful or corrosive vapours as is the case with many acid cleaning processes. Since there is no attack on sound ferrous metals, mild steel tanks and trays are adequate. The need for rubber-lined tanks and stainless equipment is eliminated.

#### **MAINTENANCE OF THE WORKING SOLUTION**

Maintenance of the solution during its useful life is limited to skimming off surface oils and replacing evaporation losses with additions of water. Eventually the performance of the solution will start to drop off and the addition of another drum of AGMAKLENZ 42W will provide a short-term boost. Ultimately the fall off in performance will be such that draining the tank and replenishing with a fresh solution is inevitable.

## **HEALTH AND SAFETY – SUMMARY**

AGMAKLENZ 42W is a strongly alkaline material and should be handled with care. Goggles, aprons and protective gloves should be worn when handling both the powder and its solutions. Splashes should be treated by irrigation with copious quantities of water.

Neither the powder nor its solutions should be allowed to make contact with aluminium alloys, zinc or zinc-based alloy, tin or its alloys or lead-based materials, since these metals are readily soluble in alkaline solutions.

**SEE SEPARATE MATERIALS SAFETY DATA FOR FULL REGULATORY DATA.**