

E-Pik™ 230

Alkaline Deruster

E-Pik 230 is a highly alkaline powdered mixture of chemical components which is used in water to remove rust and oxidation from ferrous metals without attacking the base metal or causing hydrogen embrittlement. It does not change dimensions of the ferrous surfaces. The derusted surface will exhibit nominal corrosion resistance and will not flash rust (re-rust).

Highly rusted steel surfaces can be derusted and cleaned in one step by adding 4 to 8 ounces per gallon of **E-Pik 230** to one of **EPI's E-Kleen** alkaline soak cleaners for steel.

SOLUTION MAKE-UP

E-Pik 230 is used at a concentration of one (1) to three (3) pounds per gallon of water at temperatures of 180°F to boiling in plain steel tanks. The concentration, length of immersion and temperature will depend upon the degree of rust present. Prior to charging a production tank, some experimentation should be done with thoroughly cleaned parts to determine the optimum parameters for derusting.

Calculate the operating volume of the tank, leaving 6 inches of free board. Determine the total poundage of salts required. Fill the tank half full with cold water. Do not apply heat. A full face shield, rubber gloves and rubber apron must be worn while mixing the solution. Slowly add the salts to the water while thoroughly and continuously stirring the solution to avoid the formation of lumps. The salts should be added (sprinkled) over the entire surface of the water while stirring to avoid violent spattering on the surface. When the total amount of salts has been added, the tank should be filled with water to within 6 inches of the top while stirring continuously. Once the tank is filled, heat is applied and the solution is stirred to ensure a uniform temperature throughout while the temperature rises.

SOLUTION MAINTENANCE

The strength of the **E-Pik 230** solution can be maintained by a simple hydrometer test (Baume). Periodic additions of **E-Pik 230** to the solution will maintain continuous effective derusting. When the concentration of dissolved rust and other soils becomes too high, the solution must be discarded.

<u>CONCENTRATION OF E-PIK 230</u>	<u>BAUME</u>	<u>SPECIFIC GRAVITY</u>
4.0 lb/gallon	36.5°	1.336
3.0 lb/gallon	27.0°	1.229
2.0 lb/gallon	22.0°	1.179
1.5 lb/gallon	17.5°	1.137
1.0 lb/gallon	12.5°	1.094
0.5 lb/gallon	7.0°	1.051

When adding replenishment salts to the hot solution, they should be added very slowly and cautiously while sprinkling a little at a time over the entire surface of the solution. If production allows, the solution should be allowed to cool before adding replenishment salts.

DANGER

THIS MATERIAL CONTAINS CAUSTIC SODA. MAY CAUSE SEVERE BURNS.

Do not get in eyes, on skin or clothing. Avoid breathing dusts and mists. Do not take internally. When handling, wear goggles or face shield. While preparing the solution add slowly to surface of solution to avoid violent spattering.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. For eyes, call a physician.

The heated **E-Pik 230** solution must be adequately exhausted. Do not use galvanized iron, bronze, copper, tin or aluminum for baskets, racks, etc., as these materials will contaminate the solution.

Do not immerse aluminum or white metal into the solution as they will react violently.

Do not add **E-Pik 230** salts to hot or boiling water.

Avoid contact of **E-Pik 230** or its solutions with acidic materials.

Do not mix **E-Pik 230** with any other chemicals or solutions.

NOTE: Before using **E-Pik 230**, the **MATERIAL SAFETY DATA SHEET** furnished by **EPI** must be read and the specific instructions and precautions followed to assure correct use and personal safety.

PACKAGING

125 pound and 400 pound (net) non-returnable containers.

IMPORTANT NOTICE! For Industrial Use Only

The following is made in lieu of all warranties, expressed or implied, including the implied warranties of merchantability and fitness for purpose: seller's and manufacturer's only obligation shall be to replace such quantity of the product as proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. **Neither seller nor manufacturer shall be liable either in tort or in contract for any loss or damage, direct, incidental or consequential, arising out of the use or the inability to use the product.**

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