



690N-ES HOT VAT pH ADJUSTER

SPECIALTIES FOR MAINTENANCE AND SANITATION SINCE 1947



NEW! DELTA FOREMOST WANTS TO HELP WITH YOUR WASTE DISPOSAL PROBLEMS!

Foremost 690N-ES Is Specifically Formulated To Assist You in Preparing *Alkaline* Hot Vat Solutions For Acceptable Disposal

ENVIRONMENTAL CONTROL

It's our business to be vitally interested in helping our customers comply with local and federal waste control requirements. Of equal concern is the quality of waste that will eventually be discharged into your disposal system. This dual concern is reflected in the development of Foremost 690N-ES Hot Vat pH Adjuster for treating spent Foremost **alkaline** cleaning solutions prior to disposal.

FOREMOST 690N-ES HOT VAT pH ADJUSTER— "THE PROBLEM SOLVER"

Growing demands for a cleaner environment have restricted the procedures through which hot vat solutions were normally freely discarded. Delta Foremost's technical specialists met this demand with the formulation of Foremost 690N-ES Hot Vat pH Adjuster which helps provide successful compliance with regulations of anti-pollution authorities.

PACKED IN 55 GALLON DRUMS

pH CONTROLLED

Foremost 690N-ES is a highly concentrated neutralizing liquid designed specifically for Delta Foremost's family of fine hot vat cleaners. It is "pH controlled" for utmost economy to the user and provides fast, positive concentrated neutralization for time, motion and money savings.

IDEALLY SUITED FOR:

METAL FABRICATORS—

Pre-finish cleaning and degreasing, stage washers and hot vats

AUTOMOTIVE AND DIESEL MOTOR REBUILDERS—

Jet washers and hot vats

TRANSMISSION REBUILDERS — RADIATOR REPAIR —

Jet washers and hot vats

FOOD PROCESSORS —

Alkaline cleaning solutions

CAUTION: Although Foremost 690N-ES Hot Vat pH Adjuster makes pH adjustment economical, other considerations such as the toxicity of soils contained in solutions and the presence of heavy metals may still render these solutions hazardous and therefore unsuitable for discharge into the environment.

Rev. 9-16-14

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GALLONS OF FM 690N-ES NEEDED TO NEUTRALIZE HOT VATS WITH VARIOUS FOREMOST PRODUCTS

Rev. 11-16-16

FM 690N-ES TECHNICAL DATA

POUNDS USED	FM 10	FM 32	FM 33	FM 34	FM35-ES	FM 44-ES	FM 45	FM 70	FM 71	FM 1193-ES	FM 1194	FM 1195	FM 15
50 lbs.	15.7 gals.	4.0 gals.	14.4 gals.	4.2 gals.	4.0 gals.	1.4 gals.	4.2 gals.	12.0 gals.	15.0 gals.	7.4 gals.	12.4 gals.	13.7 gals.	11.1 gals.
100 lbs.	31.3 gals.	8.0 gals.	28.8 gals.	8.5 gals.	8.0 gals.	2.7 gals.	8.5 gals.	24.0 gals.	30.0 gals.	14.8 gals.	24.8 gals.	27.5 gals.	22.2 gals.
150 lbs.	47.0 gals.	12.0 gals.	43.2 gals.	12.8 gals.	12.0 gals.	4.1 gals.	12.7 gals.	35.9 gals.	44.9 gals.	22.2 gals.	37.2 gals.	41.2 gals.	33.3 gals.
200 lbs.	62.6 gals.	16.0 gals.	57.6 gals.	17.0 gals.	16.0 gals.	5.5 gals.	17.0 gals.	47.9 gals.	59.9 gals.	29.6 gals.	49.6 gals.	54.9 gals.	44.4 gals.
250 lbs.	78.3 gals.	20.0 gals.	72.0 gals.	21.3 gals.	20.0 gals.	6.9 gals.	21.2 gals.	59.9 gals.	74.9 gals.	37.0 gals.	62.0 gals.	68.7 gals.	55.5 gals.
300 lbs.	93.9 gals.	24.0 gals.	86.4 gals.	25.5 gals.	24.0 gals.	8.2 gals.	25.5 gals.	71.9 gals.	89.9 gals.	44.4 gals.	74.4 gals.	82.4 gals.	66.6 gals.
350 lbs.	109.6 gals.	28.0 gals.	100.8 gals.	29.8 gals.	28.1 gals.	9.6 gals.	29.7 gals.	83.9 gals.	104.8 gals.	51.8 gals.	86.8 gals.	96.1 gals.	77.7 gals.
400 lbs.	125.2 gals.	32.1 gals.	115.2 gals.	34.0 gals.	32.1 gals.	11.0 gals.	34.0 gals.	95.8 gals.	119.8 gals.	59.2 gals.	99.2 gals.	109.8 gals.	88.8 gals.
FACTOR	0.3131	0.08104	0.2881	0.08509	0.08104	0.02746	0.08498	0.2396	0.2995	0.1479	0.2480	0.2746	0.2220

TO BRING pH DOWN TO APPROXIMATELY 10.0

- Determine the approximate amount of vat compound used. If the amount is not known, through using the FM 8300 Hydrometer and Hydrometer Chart, determine the total weight of the vat product that is in the vat. This reading will only be approximate due to the influence of solids in the vat solutions.
- Multiply the determined weight of the vat compound by the FACTOR for the appropriate vat product found on the bottom line of the chart above to determine the number of gallons of FM 690N-ES Hot Vat pH Adjuster needed. This figure will represent the most theoretical amount required. Invariably the amount required will be less.
- Cool the vat solution to room temperature.
- Slowly and with gentle stirring and good ventilation, add ½ the amount of FM 690N-ES Hot Vat pH Adjuster.
- Using phydryon (pH) paper with the range of 1-12, sample and test the pH reading of the solution.
- Continue adding FM 690N-ES Hot Vat pH Adjuster in portions and repeat testing until the desired, acceptable pH range of 9.0 to 9.4 is reached.

DANGER: KEEP OUT OF REACH OF CHILDREN. CONTAINS HYDROCHLORIC ACID.

Causes severe eye and skin burns. Do not get in eyes, on skin or clothing.
Causes severe respiratory tract irritation. Do not breathe vapors. Vapor extremely irritating. Use with adequate ventilation. Do not take internally. When handling always wear chemical splash goggles, face shield, rubber gloves and protective clothing.

FIRST AID: EYES AND SKIN: In case of contact, immediately flush with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes under shower. Get medical attention immediately. **INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. **INGESTION:** If conscious, give large amounts of lime water or milk of magnesia or water. Get medical attention immediately.

Before using this product, read the Safety Data Sheet (SDS) for more detailed information regarding safe handling.