



Confederate Chemicals Ltd

Mochdre Industrial Estate Newtown Powys SY16 4LE

Emerg. tel: 01686 627158

w: www.confederatechemicals.com w: www.paintstrip.com



TECHNICAL DATA SHEET

Superfos TN

1. USE OF PRODUCT

A liquid titanium phosphating solution used in conjunction with SUPERFOS ADDITIVE to clean and deposit a lightweight conversion coating on steel and mixed metals prior to painting. SUPERFOS ADDITIVE contains surfactants considered by our suppliers to be >80% biodegradable when tested by the OECD screening test which satisfies EEC directives 82/242 and 82/243.

2. TYPICAL PROCESS LINE

Stage No.	Process Description	Process Time (mins)	Strength (concentration)	Temperature °C
1 dip	Superfos TN	0.5 - 2		40°C
2 spray	Superfos Additive			
	Water			
3				

For a Safety Data Sheet on this product please contact Confederate Chemicals by telephone, or by e-mail at lab@confederatechemicals.co.uk

3. OPERATING THE CHEMICAL

3.1 Chemicals Required

Superfos TN

For the control of the process, testing equipment will be required





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3.2 Make Up Procedure

To make up the solution carry out the following instructions:

Determine the working volume of the tank or refer to the relevant Plant Information & Control Summary Sheet. Fill the tank three-quarters full with clean water and begin heating to operating temperature. For each 1000 litres of working solution add:

Product Name	Quantity
SUPERFOS TN	

3.2 Testing and Control

pH: Control pH between 4.0-4.5 with small increments of Sodium Hydroxide, preferably as a 20% solution.

Total acid: Titrate a 50ml sample of the working solution against 0.1N Sodium Hydroxide to the phenolphthalein end point (colourless to pink). Each ml of Sodium Hydroxide required is considered 1 point. A 2% solution AFTER adjusting pH will give a pointage of 2.5-3.5. To raise the pointage by 1.0 add 7 litres/1000 litres and readjust the pH.

Replenishment

For each % below the recommended figure add for each 1000 litres of bath solution:

Product Name	Quantity

4. HANDLING OF WORK

5. STORAGE AND HANDLING

6. EQUIPMENT

Heavy gauge mild steel is acceptable to contain SUPERFOS TN solutions although stainless steel is preferable. Pumps, valves, jets etc. must be acid resistant.

7. MAINTAINANCE





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8. HEALTH AND SAFETY

The solution is strongly acidic and may be hot, therefore care must be taken when operating the process to avoid splashing. The use of protective clothing, including eye or face protection is to be recommended. If contact with the eyes occur, irrigate with copious quantities of clean water and seek medical attention. Eyewash facilities should be available near the plant in case of accident.

A good standard of industrial hygiene should be observed when handling chemicals or operating the process. Do not smoke, eat or drink when handling chemicals and ensure that PPE is replaced, maintained or regularly laundered as recommended.

Further information, including First Aid details, as required by COSHH Regulations will be found in the relevant Material Safety Data Sheet.

