



ENGINEERING MATERIAL SPECIFICATION

Material Name	File Control No.	Specification Number
PHOSPHATE SOLUTION, ZINC, SLUDGE CONDITIONER	SMT5005BC5440	SK-M5B9607-A

1. SCOPE

The material defined by this specification is a sludge conditioner, supplied as an aqueous solution containing iron nitrate.

2. APPLICATION

This specification was released originally for material used as sludge conditioner in combined dip and spray phosphate equipment.

3. REQUIREMENTS

3.1 STATISTICAL PROCESS

Suppliers must conform to the requirements of Ford Quality System Standard Q-101. A mutually acceptable Control Plan as described therein is required for material/source approval. Appropriate statistical tools must be used to analyze process/product data so that variation in the final product is continuously reduced.

3.2 CHEMICAL COMPOSITION

Iron as Fe:	5,5 +/- 0,5 %
Nitrate as NO ₃ :	18,0 +/- 2,0 %

3.3 DENSITY AT 20 C (FLTM EU-BI 2-2)	1,22 +/- 0,03 kg/L
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3.4 SUPPLIER'S RESPONSIBILITY

All materials supplied to this specification must be equivalent in all characteristics to the material upon which approval was originally granted.

Prior to making any changes in the properties, composition, construction, color, processing or labelling of the material originally approved under this specification, whether or not such changes affect the materials' ability to meet the specification requirements, the Supplier shall notify Purchasing, Toxicology and the affected Materials Engineering activity of the proposed changes and obtain the written approval of the Materials Engineering activity. Test data, test samples and a new code identification are to be submitted with the request.

Date	Release No.	Release/Revision
88 06 01	B/031512 TP	Revised 2., 3., 4., 5., added 3.1
81 11 12	SM/EQ 8894 TP	Released

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Substance restrictions imposed by law, regulations or Ford apply to the materials addressed by this document. The restrictions are defined in Engineering Material Specification WSS-M99P9999-A1, unless a different suffix (e.g., A2 or A3) is specified on the engineering document for the application.

4. APPROVAL OF MATERIALS

Materials defined by this specification must have prior approval by the responsible Materials Engineering activity. Suppliers desiring approval of their materials shall first obtain an expression of interest from the affected Purchasing, Design and Materials Engineering activity. Upon request, the supplier shall submit to the affected Materials Engineering activity its own laboratory report to the specification (test results, not nominal values), the material designation and code number, and test specimens for Ford evaluation. Upon approval, the material will be added to the Engineering Material Approved Source List.

5. GENERAL INFORMATION

The information given below is provided for assistance and clarification.

5.1 The phosphate system released by this specification consists of the following materials:

5.1.1	Phosphate Solution, Zinc, Alkaline Cleaner	SK-M5B9604-A
5.1.2	Phosphate Solution, Zinc, Wetting Agent	SK-M5B9608-A
5.1.3	Phosphate Solution, Zinc, Start Up	ESK-M5B376-A
5.1.4	Phosphate Solution, Zinc, Make Up	ESK-M5B338-A
5.1.5	Phosphate Solution, Zinc, Activator	ESK-M5B327-A
5.1.6	Phosphate Solution, Zinc, Accelerator	S-M5B4509-A
5.1.7	Phosphate Solution, Zinc, Passivating Solution	ESK-M5B326-A