



PHOSPHATE SOLUTION, ZINC, MAKE UP

WSS-M5B421-A

1. SCOPE

The material defined by this specification is a solution containing essentially zinc phosphate.

2. APPLICATION

This specification was released originally for material used as make up material in spray only phosphate equipments. In general this material is used in combination with WSS-M5B419-A Phosphate Solution, Zinc, Start-Up, with WSS-M3B72-A4 Phosphate Solution, Zinc, Make up fluoride, with WSS-M5B420-A Phosphate Solution, Zinc, Additive, with SK-M5B9580-A Phosphate Solution, Zinc, Passivating Solution and after the application of ESK-M5B393-A Phosphate Solution, Zinc, Alkaline Cleaner.

3. REQUIREMENTS

3.1 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

Material suppliers and part producers must conform to the Company's Standard Requirements For Production Materials (WSS-M99P1111-A).

3.2 CHEMICAL COMPOSITION

Zinc as Zn	5.6 +/- 1.2%
Manganese as Mn	1.0 +/- 0.4%
Nickel as Ni	0.9 +/- 0.4%
Phosphate at P ₂ O ₅	16.5 +/- 2.5%
Nitrate as NO ₃	3.0 +/- 0.8%
Fluoride as F	0.7 +/- 0.4%

3.3 pH VALUE 1% SOLUTION BY WEIGHT AT 20°C

2.8 +/- 1.0

3.4 DENSITY, g/cm³
(ASTM D 1475)

1.35 +/- 0.05

3.5 ACIDITY

Free (Sodium hydroxide 0.1N) Indicator: Bromo Phenol Blue	3.7 +/- 0.3 mL
Total (Sodium hydroxide 0.1N) Indicator: Phenolphthalein	5.1 +/- 0.8 mL

Date	Action	Revisions
2007 05 08	Activated	



Documents

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4. GENERAL INFORMATION

The information given below is provided for clarification and assistance in meeting the requirements of this specification.

4.1 The phosphate system released by this specification shall be supported by the following materials:

4.1.1.	Phosphate Solution, Zinc, Alkaline Cleaner	ESK-M5B393-A
4.1.2.	Phosphate Solution, Zinc, Start Up	WSS-M5B419-A
4.1.3.	Phosphate Solution, Zinc, Additive	WSS-M5B420-A
4.1.4.	Phosphate Solution, Zinc, Make up, fluoride	WSS-M3B72-A4
4.1.5.	Phosphate Solution, Zinc, Passivating Solution	SK-M5B9580-A

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