



PHOSPHATE SOLUTION, ZINC START UP

WSS-M3B79-A

1. SCOPE

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

2. APPLICATION

This specification was released originally for material used as make-up material in full dip phosphate equipments. This material is used in combination with WSS-M3B80-A Phosphate Solution, Zinc, Make Up, WSS-M3B74-A Phosphate Solution, Zinc, Activator, SM-5B4509-A or WSS-M3B76-A Phosphate Solution, Zinc, Accelerator.

3. REQUIREMENTS

Material specification requirements are to be used for initial qualification of materials.

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 (atomic absorption determination)

Zinc as Zn	2.5 +/- 0.4%
Nickel as Ni	2.2 +/- 0.4%
Manganese as Mn	2.5 +/- 0.4%

3.3 ACIDITY

Free (Sodium hydroxide 0.1N) Indicator: Bromo Phenol Blue	8.0 +/- 0.5 mL
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Total (Sodium hydroxide 0.1N) Indicator: Phenolphthalein	36 +/- 3 mL
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3.4 DENSITY (20 °C)	1.49 +/- 0.04
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4. GENERAL INFORMATION

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

Date	Action	Revisions
2007 08 10	Activated	



- 4.1** The phosphate system released by this specification consists of the following materials:
- 4.1.1 Cleaner, body sheet metal, multi-component, builder, liquid- WSS-M5B409-A3
 - 4.1.2 Cleaner, body sheet metal, multi-component, surfactant, LIQUID - WSS-M5B409-A4
 - 4.1.3 Phosphate Solution, Zinc, Activating Agent- WSS-M3B74-A
 - 4.1.4 Phosphate Solution, Zinc, Make Up- WSS-M3B80-A
 - 4.1.5 Neutralizing Agent- SM-5B4508-A
 - 4.1.6 Phosphate Solution, Zinc- SM-5B4509-A or WSS-M3B76-A
 - 4.1.7 Phosphate Solution, Zinc, Make-Up Manganese - WSS-M3B72-A1 and WSS-M3B72-A2
 - 4.1.8 Phosphate Solution, Zinc, Make-Up Manganese - WSS-M3B72-A3
 - 4.1.9 Phosphate solution, zinc, accelerator- ESK-M5B354-A
 - 4.1.10 Phosphate Solution, Zinc, Accelerator Additive- - ESK-M5B353-A
 - 4.1.11 Phosphate Solution, Zinc, Inorganic, Chrome-Free, Passivating Solution - WSS-M5B405-A