

FRM Accelerator

Liquid Sodium Nitrate

Acceleratory #40 is an adjuster “TONER” additive for zinc phosphate systems. Provides iron control in zinc baths and also provides smooth coatings in process baths when needed.

Accelerator #40 is a convenient liquid which is easy to dispense and use.

Accelerator #40 is used to control iron in systems and a grain refiner in pre paint and coatings systems.

Features & Benefits

- High solids liquid.
- Helps control ratio of total to free acid in zinc processing baths.
- Typically, higher acid ratios provide smoother coatings for paint bonding.
- Easy to dispense or automatically feed and monitor.
- Stable long-lasting results.
- NOTE: A .25% addition to an an acid zinc phosphate bath will provide 1.0 points of accelerator. However, note, the material is evasive and does deplete as metal is processed. It also is replenished when additions of replenisher are added due to auto regeneration during the coating process.

Physical Data

pH	9
Product Type	Liquid
Spec. Gravity	1.25
lbs./gal.	10.43
Foam, 0 = Low, 9 = High	0
Shelf-Life Years	10 Years
Freeze Information	Not damaged by freezing

Product Bulletin

Product Name: FRM Accelerator

Product Code: 2202924

Revision Date: May 5, 2025

Typical Processing

1. See process data.
2. To eliminate iron in zinc baths add small amounts (typically 1-2 quarts, or 1-2 liters per 100 gallons until bath shows negative iron.
3. Use of this product will raise the acid ratio of zinc baths.
4. Caustic soda, or ammonia hydroxide may be used to raise the ratio of a zinc bath.
5. Stir small amounts of dilute material into bath to raise ratio
6. Use as required by process recommendation.
7. Feed as required.

Packaging

Container Type	Poly
Net Units	573
Tare Wt.	25
Gross Wt.	600
DOT_Name	UN 3139, Oxidizing Liquid, n.o.s. (Sodium Nitrite), 5.1, PG II
DOT Hazard	Oxidizer
Tariff ID	2834.10.10

Use Parameters

Concentration Range	0.1% - 0.5%
Temperature Range	Per process
Time Range	As required
Agitation	Recommended

Waste Disposal

See local authorities.

Holding Tank Materials of Construction

Steel, stainless or poly.

Other Information



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It is important that the OSHA DATA, "Material Safety Data Sheet" be carefully read and reviewed with the users of this product. OSHA data is required to be posted in the work area by law.

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Our People. Your Problem Solvers.

For more information on this process,
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