

Toner MG-1 Pre-Rinse

GRAIN REFINER, CONDITIONER – ACTIVATOR

TONER MG-1 is a grain refiner used in the rinse stage prior to MANGANESE phosphatizing of metals. MG-1 tightens the crystal formation which in turn minimizes heavy coatings when not required. Crystal size < 12-micron, coating weights < 1300 mg/ft². Ultra-low sludging bath.

TONER MG-1 is also an activator which promotes coatings on difficult surfaces of ferrous metals.

NOTE: GRAIN REFINERS MUST HAVE MILD AGITATION IN THE PROCESS SOLUTION.

TONER MG-1 enhances finished product quality by providing a wider window of process capability and repeatable

Features & Benefits

- Powder, easily disperses in water.
- Low use cost.
- Provides typical crystal size of < 12 microns
- Easily to control and use.

Typical Processing

1. Preclean surfaces in detergent.
2. Rinse.
3. Treated rinse. TONER MG-1. 1/4-1/2 OZ/GAL., 110-170 Deg. F. 1-4 min.
Target pH >8.0
4. Manganese phosphate, SS Manganese, Lube Coat MG
5. Rinse
6. Seal or RP rinse. Air dry off.

Specifications

pH	9
Prod.Type	Spray or Powder
Spec.Grav	0
LBS./GAL	0
FOAM 0=low 9=high	0
Shelf life years:	10 Years
Freeze information	Not damaged by freezing



Product Bulletin

Product Name: Toner MG-1 Pre-Rinse

Product Code: 2203903

Revision Date: June 24, 2026

Packaging

Container Type	POLY PAIL
Net Units	100
Tare Wt.	2 lb
Gross Wt.	102
Dot Name	Not Regulated
DOT Hazzard	Not Regulated
Tariff ID	2835.29

Use parameters

Concentration Range	.1-1.0 oz/gal.
Range	100-190 deg. F.
Time Range	1/2 - 8 minutes
Agitation	spray or tank air, or mixer

Other information

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.

Waste Disposal

Neutralize

Holding Tank Materials of Construction

Steel, Stainless or Poly.

Testing, Operating & Troubleshooting Data

Titration Procedure (Target Range = 1/4-1/2 Oz./gal)

1. Take A 25 MI Sample
2. Add 5-7 Drops of Bromo Blue Indicator or Total Alkalinity Indicator
3. Titrate With 0.1n Acid Until the Color Changes from Blue to Yellow.

The Number of Mls Divided By 10 = Oz/gallon Of Toner

Note: Total Alkalinity Indicator May Be Used In Place of Bromo Blue, Determine Which Color Change Is More Identifiable in Production.

Note: Grain Refiners Must Have Mild Agitation In The Process Solution.

Target Ph >8.0



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For more information on this process,
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