TCJ-50 (MX)

Medium Zinc Phosphate "Non-Nickel"

TCJ-50 is a "Lo-temp" Medium-heavy coating zinc phosphate compound used for applying corrosion inhibiting coatings to steel in immersion tanks. Operates at 150 F. Ultra-low sludging, up to 75% less.

TCJ-50 is an immersion type product which provides coatings of 1400 (+ /-200) mg/ft². Coatings are applied over steel and subsequently coated with a corrosion inhibiting coating, oil, wax or lubricant. Approved by and meeting various military and automotive specifications.

TCJ-50 provides a dark coating which resists many hours of corrosion resistance in salt spray testing conditions. Premium quality performance. Does not contain EDTA type products. Meeting various industry specifications. Booster 100 can be used to boost

Features & Benefits

- Lo-temperature processing.
- Nickel-free.
- Providing significant energy heating costs savings.
- Ultra-low sludging for lowest cost & downtime.
- Extended bath life by 3-5 times lowering cost.
- Resistance to iron related problems. Up to 20 points iron.
- Provides dark dense coatings.
- Provides improved corrosion resistance and bonding.
- Eliminates "excess" heat related sludge on coils.
- Effectively coats resistant alloys.

Physical Data

pH	1
Product Type	Liquid
Spec. Gravity	1.44
lbs./gal.	12.01
Foam, 0 = Low, 9 = High	0
Shelf-Life Years	10 years
Freeze Information	Not damaged by freezing.

Typical Processing

1. Pre-Clean, Alkaline #2800 or 2444-L, 8% B.V, 8 min., 170 deg. F.
2. Rinse (Or alkaline descaler #399 LR) (as needed per various specs).
3. Acid Pickle, (Hydrochloric or Sulfuric) 8 min optional as needed.
4. Rinse.
5. Preferred Rinse (maintain low conductivity levels in all rinses.)
6. TCJ-50 Zinc, 135-160+ F., 8-20 Min, 32+ points acid (re:5%) Iron up to 20.
7. Rinse.
8. Rinse (No chrome sealers used in this process).
9. Oil option: 10-20% by volume #240, 125 deg. F, 30-60 Sec.)
10. Dry to touch “pre-paint option” #2010, 1-4%, 125 deg F. 30-60 sec.
11. Lubrication option: Loc-Lube #5, 8 oz./gal., 175 deg. F, 4-10 min.

Packaging

Container Type	Poly
Net Units	660
Tare Wt.	25 lb.
Gross Wt.	685
DOT_Name	UN 3264, Corrosive Liquid, Acidic, Inorganic, N.O.S., (Phosphoric & Nitric Acids), 8, PG II.
DOT Hazard	Corrosive.
Tarriff ID	2835.29

Use Parameters

Concentration Range	5% 30-95 (see tests for total)
Temperature Range	135 – 185 deg F.
Time Range	8 – 20 minutes
Agitation	n/a

Waste Disposal

Treat.

Holding Tank Materials of Construction

Acid resistant, stainless, or poly.

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.

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For more information on this process,
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