



Product Bulletin

Product Name: Rust Erase 22

Product Code: 2541077

Revision Date: June 24, 2026

Rust Erase 22

NEUTRAL CLEANER, RUST & OXIDE REMOVER

RUST ERASE 22 is an immersion or wipe on cleaner and descaler which provides unique derusting, degreasing, scale and oxide removal from steel without hazardous caustic or acids. Can eliminate hazardous acids and shot blasting in many operations. Provides effective performance on sensitive tooling and finished surfaces which cannot tolerate acids.

RUST ERASE 22 can be used on all types of steel, cast iron, aluminum, zinc, galvanize, stainless, brick, concrete and plastic surfaces.

Removes light rust, iron oxide, scale and weld flash oxide. Ideal for laser oxide removal also. RUST ERASE 22 is a near neutral PH product (re: < 8.0), non-hazardous and does not present odor or vapor difficulties. Also provides flash rust protection to unrinsed surfaces. Excellent detergency to remove oils and greases.

Features & Benefits

Biodegradable, free of metals. Free rinsing with warm or cold water.

Provides in process rust protection.

Safe to Steel, Aluminum & Zinc (Test on each metal prior to production)

Darkens copper and brass. Test each alloy of concern.

Advanced Detergent Package for added degreasing.

Effective on Rust, Oxide, Laser Scale

Multi-use product. Can be used in soak washers, agitating tanks, or in vibe or tumble finishing operations.

Excellent product for use prior to painting and coating operations.

Typical Processing

SOAK TANKS:

TIME: 8-30 Minutes, Or As Required.

TEMPERATURE: Ambient-180 F. CONCENTRATION: 5-20 %

**The severity of rust and scale will determine the actual time, temperature and concentration required for each job.

Agitation with pump, eductors or mixers are recommended to keep fresh solution on the face of difficult scale and oxide. Shortens cleaning time significantly.



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Specifications

pH	8
Prod._Type	Liquid
Spec.Grav	1.1
LBS./GAL	9.17
FOAM 0=low 9=high	0
Shelf life years:	10
Freeze information	Not Damaged by Freezing

Packaging

Container Type	POLY
Net Units	504
Tare Wt.	25 LB.
Gross Wt.	529
Dot_Name	Not Regulated by D. O. T.
DOT Hazzard	Not Regulated
Tariff ID	n/a

Use parameters

Concentration Range	4-20%
Range	90-200 F.
Time Range	2-45 MIN
Agitation	Soak or Steam Wand

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

Remove Fats, Oils, Grease, Metals and Suspended Solids.

Holding Tank Materials of Construction

Steel, Stainless or Poly.

Testing Operating & Trouble Shooting Data

The Below References & Titrations Represent Fresh/virgin Bath Make-ups. They Do Not Account For Interference From Sludge, Oils, Metals And Other Foreign Contaminants (rws 7/2018)

	<u>100%</u>	<u>50%</u>	<u>25%</u>	<u>15%</u>	<u>10%</u>	<u>5%</u>	<u>2%</u>
P.h.	7.5	7.43	7.4	7.4	7.45	7.54	7.59
Refractance	15	8.0	4.0	2.3	1.3	0.8	< 0.5
Conductivity	>20,000	>20,000	>20k	16k	11.5k	6.6k	2,700

Total Acid Titration: Take A 50 MI Sample, Add 7 Drops Phenol Indicator #1
Titrate With 0.1 N Naoh Until The Color Changes From Clear To Medium Pink
The # Of Mls Required Multiplied By Factor Of **1.8** = Total Acid Composition

Total Acid Dropper: Take A 50 MI Sample, Add 7 Drops Phenol Indicator #1
Add Drop By Drop Of 1.0 N Naoh Until The Color Changes From Clear To Medium Pink
The # Of Drops Multiplied By Factor Of **0.73** = Total Acid Composition

Total Iron Points: Take A 25 MI Sample, Add 10 Mls 50% Sulfuric Acid
Titrate With Test Solution 042 (.042 Potassium Permanganate)
Color Changes From Colorless To Medium Pink (Color Must Maintain Pink For 20 Seconds) The # Of Mls Required = Total Points Of Iron

Bath Maintenance / Operating (Total Acid / Iron Ratio):

As Bath Matures, Total Acid Composition Drops, As Iron Builds / Climbs The Total Acid To Iron Ratio Will Fall, Nearing Zero, When Bath Is Spent.

It Is Recommended To Maintain Total Acid / Iron Ratio > 0.5

Approximate Add Of 10% Rws 565, Will Increase Ratio By 1 Point

It Is Recommended To Monitor Ph And Keep Below 9.1 (10% Add Of 565 Drops Ph 1.5 Pts)

Other Metrics To Monitor Include Conductivity, Total Alkalinity & Reverse Free Acid These Other Metrics Can Be Used For Samples Submitted For Lab Analysis

Reverse Free Acid Titration:

Take A 25 MI Sample, Add 7 Drops Bromphenol Blue Indicator #120
Titrate With 0.1 N Acid Until The Color Changes From Blue To Yellow
The # Of Mls Required Multiplied By Factor Of **0.77** = Reverse Free Acid

Reverse Free Acid Dropper

Take A 10 MI Sample, Add 7 Drops Bromphenol Blue Indicator #120
Add Drop By Drop Of 1.0 N Acid Until The Color Changes From Blue To Yellow
The # Of Drops Multiplied By Factor Of **0.714** = Reverse Free Acid

Total Alkalinity Titration:



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Take A 25 MI Sample, Add 7 Drops Bromcresol Purple Indicator #6
Titrate With 0.1 N Acid Until The Color Changes From Purple To Yellow
The # Of Mls Required Multiplied By Factor Of **1.15** = Total Alkalinity Points

Total Alkalinity Dropper

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Our People. Your Problem Solvers.

For more information on this process,
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