



Product Bulletin

Product Name: MICRO CLEAN DS-35

Product Code: 2541076

Revision Date: September 25, 2025

MICRO CLEAN DS-35 Purge Fluid

DESCALER - DE-RUSTER - PURGING FLUID

DS-35 is a POLYMER BASED, acidic PURGING FLUID. It is used for SCALE AND OXIDE STRIPPING, brightening AND DESTAINING, also an excellent choice for removal of phosphate scale from equipment.

MICRO DS-35 offers scale and oxide penetration and digesting. Provides high level of safety to the base metal such as stainless steel and other metals. Free of chlorides, sulfates or other halogens. Eliminates caked sludge from the bottom of soak tanks when cleaning heavy oxide and scale.

MICRO can be used at all temperature levels and rinses well with warm or cool water. Can also be used in parts washing operations if rust is to be removed. Will work at ambient temperatures with added time.

Features & Benefits

Biodegradable. Easy to use and no strong acid odors or mists.

Is also used for soak tank cleaning of rusted and scaled parts. Ideal for removal of weld scale or laser burn.

Mixes easily with cool or warm water.

Digests phosphate sludge / scale from heating coils. Water sludge and scale from boilers and heat exchangers.

Provides bright surfaces on stainless steel, glass, tile, painted surfaces. (Test on alloys of copper and brass. In most cases it brightens) Note: removes heavy rust and oxide from steel.



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Physical Data

pH	<2.0
Product Type	Liquid
Spec. Gravity	1.116
lbs./gal.	9.31
Foam, 0 = Low, 9 = High	0
Shelf-Life Years	10 years
Freeze Information	Not Damaged by Freezing

Typical Processing

EQUIPMENT EXTERIOR CLEANING: Dilute with warm water at a rate of 1/2 -5%, depending on the job. Apply by foamizer, spray or bucket & brush. SOAK TANK CLEANING PHOSPHATE SCALE FROM BARREL-TANK:

CONCENTRATION: 10-20% by volume., TEMPERATURE: AMBIENT -170 DEG F. , TIME: Heated to 140 -150 2-4 hours to clean phosphate barrels. Ambient it would take 12- 24 hours or as determined by testing.

BRIGHTEN & CLEANING OF SURFACES spray on surfaces, brush, allow soaking period. Rinse with warm or cool water.

Packaging

Container Type	Poly
Net Units	512
Tare Wt.	25
Gross Wt.	537
DOT_Name	UN 1805, Phosphoric Acid Solution,8, PG III
DOT Hazard	Corrosive
Tariff ID	2809.20



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Use Parameters

Concentration Range	2-20%
Temperature Range	Cool up to 200 F.
Time Range	As needed in process
Agitation	Best when available

Waste Disposal

Nuetralize.

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.

Testing, Operating & Troubleshooting Data

A 9-2010: Filtration Recommendation:

When Removing Zinc Phosphate Sludge From Heating Coils And Other Tank Parts It Has Been Determined That Filtration Is The Best Procedure To Remove Sludge By-product. A Simple Canister Bag Filter Or Wound Spool Filters In A Canister Could Be Used. 50 - 150 Micron Size Bags Could Be Considered. A Low Volume Plastic Or Stainless Steel Pump Would Be Adequate. A Mixer On The Tank Would Assist At Moving The Fallout From The Bottom Of The Tank. This Procedure Could Extend The Life Of The Bath To Indefinite By Simple Filtering And Replenishment Of Concentrate As It Is Consumed.

Titration % By Volume: (as Total Acid)= (6/10 & 4-11 Ros)

- (1) Transfer 10 Mils To Test Bottle.
- (2) Add 5-10 Drops Of Indic. #1 (phenolphthalien) "color Will Be Clear"
- (3) Now Add Drop By Drop 1.0 Normal Sod. Hydroxide (Aka Test Sol. #10), Until Pink Color Stays.
- (4) Number Of Mls Used Times A Factor Of: $\times 2.6 = \% \text{ By Volume (Or Points Total Acid.)}$

Typical Target Use Range For Descaling = 10 - 20% Or 3.25 - 7.5 Mls Of Titrant.

Titration For % Of Free Acid =

- (1) Transfer 10 Mils To Test Bottle.
- (2) Add 5-10 Drops Of Indicator Brom Phenol Blue "color Will Be Yellowish Dark "
- (3) Now Add Drop By Drop 1.0 Normal Sod. Hydroxide (Aka Test Sol. #10), Until Blue Color.
- (4) Number Of Mls Used Times A Factor Of: $\times 3.0 (4-11) = \% \text{ By Volume As Free Acid (Or Points Free Acid.)}$

Typical Target Use Range For Descaling = 10 - 20% Or 3.25 - 7.5 Mls Of Titrant.

Acid Ratio: Total Acid / Free Acid = 1.7 For A New Bath.

As The Bath Ages And Dissolves Oxide And Scale The Ratio Will Rise.

As The Ratio Rises (Lower Free Acid Points) It Is An Indication The Bath Is Building Up With Solids And Will Require Decanting Or Dumping The Bath Due To Slow Or No Performance.

A Titration Log Sheet Should Be Maintained To Record All Test Results And Indications Of When A Bath Should Be Decanted Or Dumped.



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Our People. Your Problem Solvers.

For more information on this process,
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