

Manufactured Since 1942 by: Apex Engineering Products Corporation

RYDLYME[®]
World's Leading Biodegradable Descaler

Heat Treating Industry

RYDLYME dissolves water scale, lime, mud and rust deposits safely, quickly and effectively!



*the solution to your
water scale problems*

RYDLYME and the Heat Treating Industry

Most of the equipment used in the heat treating industry, such as vacuum furnaces, use water to effectively and efficiently cool the equipment. Unfortunately, the heating of water allows for deposits such as lime, calcium, rust, and other minerals to drop out and attach to the equipment surfaces. These deposits cause varying degrees of water-related problems, affecting operating efficiencies and leading to other, more costly problems including downtime. An example of this problem is within vacuum furnaces. As the deposits build on the distribution plates, cooling water paths become blocked, significantly decreasing efficiency. The resulting channeling through diminished passages results in hot spots on the furnace walls. You can put an end to these water scale problems with **RYDLYME**, a safe and environmentally acceptable alternative to other scale removal methods.

RYDLYME is the trade name of our innovative and *biodegradable* descaler. It is specifically designed

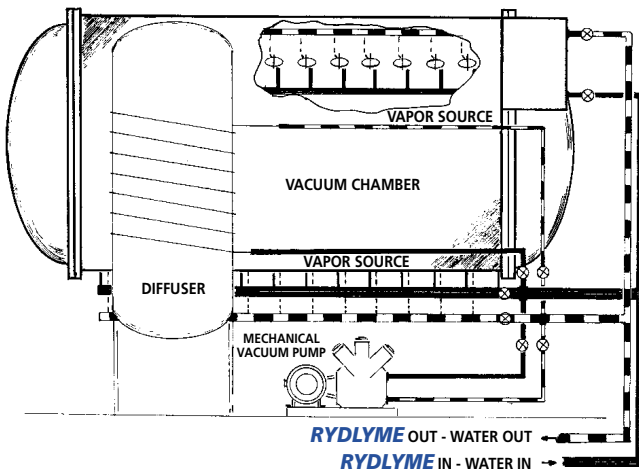
to dissolve the toughest water scale, lime, mud, and rust deposits from virtually any piece of water based equipment. This powerful, yet totally safe, liquid descaler is non-toxic, non-injurious, non-flammable, non-hazardous, non-corrosive, and *biodegradable*; so **RYDLYME** will not harm your personnel, equipment, or our environment!

RYDLYME is safe on cast iron doors, chambers, manifolds, valves and piping, copper tubing and diffuser pumps, rubber hoses and gaskets, as well as other water-wetted surfaces found in the heat treating industry.

All your water-cooled heat treating equipment will function properly and do a satisfactory job if the cooling water circuits are kept clean and free of water scale deposits. An economical and expedient approach for the removal of these water formed deposits from the cooling water circuits is to periodically clean them with **RYDLYME**.



All that is required is a simple circulating pump to circulate this revolutionary product through the waterside of your fouled equipment for just a few hours!



Please request a "Fly Sheet" or guide outlining step-by-step instructions on returning your particular equipment back to peak operating efficiencies.

*Periodic **RYDLYME** cleaning is necessary to maintain proper cooling curves and annoying hot spots from within your furnace*

Free RYDLYME Demonstration

The typical heat treating business has a great variety of uses for water and each may have its own quality requirements, largely determined by make-up water quality and the local environment. **RYDLYME** can be utilized on virtually any equipment in your plant, including annealing furnaces, roller bearings, chillers, condensers, and heat exchangers of all types.

Apex Engineering Products Corporation has been

successfully manufacturing the "World's Leading Biodegradable Descaler" since 1942! With our experience, field technicians, and customer service, we can offer you the best products and service available.

So call now for your FREE demonstration and we will outline a proposal to help you maintain your facility at peak operating efficiency.

Why should you use **RYDLYME**?

RYDLYME is **EFFECTIVE** . . .

it dissolves approximately two pounds of scale per gallon!

RYDLYME is **NON-HAZARDOUS** . . .

it does not fall under any of the seven federally designated classes of hazardous waste!

RYDLYME is **BIODEGRADABLE** . . .

it has a biochemical oxygen demand of 16 mg/l and can be disposed of through existing plant sewers!

RYDLYME is **SAFE** . . .

it can be held in the open hand without injury!

RYDLYME is **ECONOMICAL** . . .

Call us at (800) 451-6291 to learn how an investment in **RYDLYME** can multiply your efficiency!

But does it really work?

Just ask around!

CASE HISTORY #1068

A substantial Midwestern heat treating company successfully cleaned their vacuum furnace with **RYDLYME**. Their system was so fouled, the cooling curves could not be properly maintained due to the lack of cooling water flow. Additionally, the unit was plugged solid with rust accumulations that resulted in hot spots in the chamber walls as well as the door. After circulating 110 gallons of **RYDLYME** for only four hours, the furnace was free of water formed deposits and again operating as designed. The quality of the end product dramatically increased while the efficiency of the furnace was restored in a minimum of time. **RYDLYME** is now an integral part of their preventive maintenance program.

RYDLYME is safe enough
to hold in your open hand!

CASE HISTORY #1112

Recently, a large steel treating company in Western Pennsylvania cleaned one of their eight 12' diameter vacuum furnaces using **RYDLYME**. After circulating **RYDLYME** for 6 hours, the furnace was returned to service and showed a significant increase in energy efficiency, as well as the elimination of hot spots on the furnace walls. The company was so pleased with the results, they decided to clean their remaining seven furnaces using **RYDLYME**, and institute a preventive maintenance program to clean their furnaces every 6 months.

CASE HISTORY #875

A major aircraft engine manufacturer had been experiencing a severe fouling problem in their vacuum furnaces. The fouling became so severe, it completely bridged the chamber water channels of two furnaces, rendering them useless. After trying numerous products with limited success, they tested our product and gave this conclusion: "**RYDLYME** is the only product we have tried that actually works." They have since standardized **RYDLYME** for the cleaning of all their vacuum furnaces, which has allowed them to maintain their operating efficiencies without loss of production or costly downtime.

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the **solution** to your water scale problems

www.rydlyme.com

Periodic **RYDLYME** cleaning intervals will depend upon your water conditions, usage, and temperatures encountered. When the units are clean and free of water scale deposits, the cool down period will be shortened and the entire unit will run efficiently.

Recommended **RYDLYME** Quantities

WORK CHAMBER W x L x H	QUANTITY FOR CHAMBER AND DOOR	QUANTITY FOR COILS	TOTAL GALLONS
8 x 12 x 6	10	10	20
12 x 15 x 8	10	10	20
15 x 24 x 10	32	15	47
24 x 36 x 12	42	15	57
24 x 36 x 18	48	15	63
24 x 36 x 24	54	20	74
30 x 48 x 20	60	20	80
30 x 48 x 30	60	20	80
36 x 48 x 24	84	30	114
36 x 48 x 30	94	34	128
48 x 48 x 36	105	38	143

(Circulating time for all: 4 hours)

Listed below are just some of the types of equipment that have been thoroughly cleaned with **RYDLYME** in the heat treating industry.

- Circulating fans
- Heat exchangers
- Vacuum furnaces
- Induction heating systems
- Evaporative cooling towers
- Sump tanks
- Quench tanks
- Roller bearings
- Diffusion pumps
- Refrigerated chillers



P.O. Box 439
Plainfield, Illinois 60544

800-451-6291

FAX 815-436-9418

www.rydlyme.com