

# Ton Container Cylinder Maintenance Process

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ALEXANDER CHEMICAL CORPORATION

Alexander Chemical follows strict guidelines when maintaining and inspecting ton cylinder containers. The below steps outline these processes.

1



## Cylinder Arrival

Via Alexander Chemical's partner, Circle Transport, or another common carrier, the cylinder arrives at our facility.

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## Hazardous Material Evacuation

Once the cylinder is received, it will be connected to the proper vacuum line for evacuation of any hazardous materials contained within.



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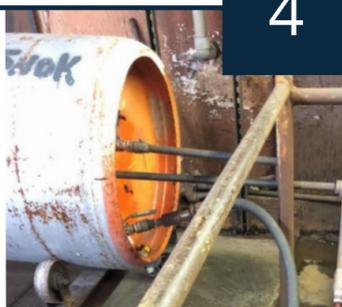
## Valve & Fuse Plug Removal

Once the cylinder has been evacuated of any and all hazardous materials, the valves and fuse plugs must now be removed.

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## Washing & External Visual Inspection

The Ton container is washed to ensure all debris and build up is removed, as needed caustic/acid rinse will be utilized. The external visual inspection will be performed to look for dents, gouges, or other issues.



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## Direct Expansion Testing

The Ton Cylinder is steam washed to ensure all dirt and build up is removed and the interior surfaces are clean for a visual inspection.

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## Drying & Internal Visual Inspection

Having passed the hydrotest/direct expansion testing and been internally cleaned, a passing internal visual inspection will be followed up by steaming the ton to eliminate moisture



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## Ready for Shot Blasting

The cylinder will be plugged and shot blasted to remove any excess paint and labels on the exterior.

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## Priming

Out of the shot blaster, the cylinder is primed as quickly as possible to eliminate any potential oxidation.



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## Protective Coating

The bare metal cylinder will now receive a protective coating to prevent oxidation. A primer is applied to coat the ton container.

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## New Valves & Fuse Plugs

The cylinder then receives new valves, is leak checked in excess of 100 psi of Nitrogen, painted, and labeled for the service requirement of the customer.



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## Ready for Shipping

The final step of the process is prepping and securing the cylinder for shipment via Circle Transport, or other common carrier.

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800-348-8827  
info@alexchem.com  
www.AlexanderChemical.com