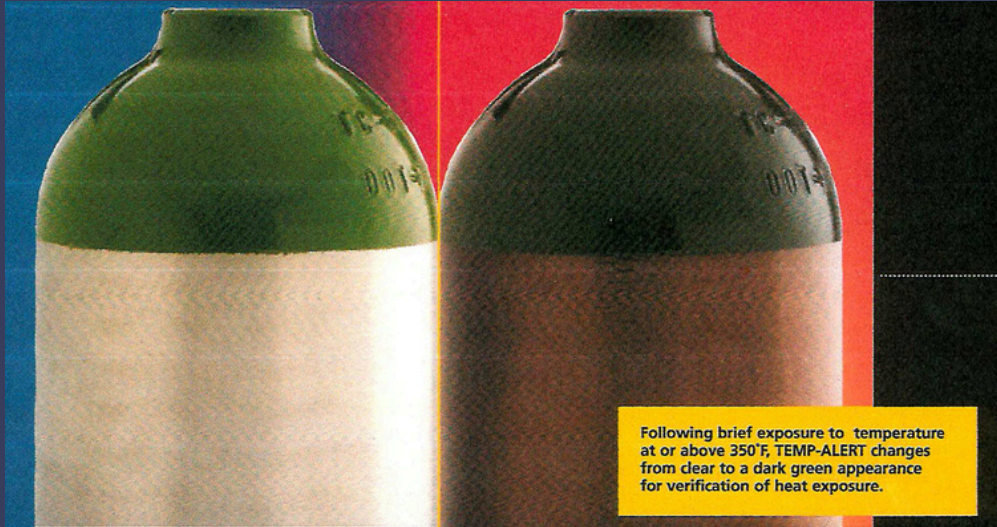




**TEMP-ALERT**  
**350**

**the ONLY heat-  
indicating,  
water-based  
coating system  
for aluminum  
cylinder  
maintenance**

# When the heat is on, **Temp-Alert** has got you covered.



Following brief exposure to temperature at or above 350°F, TEMP-ALERT changes from clear to a dark green appearance for verification of heat exposure.

**H**igh-pressure aluminum cylinders have been in use for more than half a century and have proven their superiority for safe oxygen storage. Lightweight and naturally corrosion-resistant, aluminum cylinders conveniently accommodate the needs of medical patients. However a trade-off does exist.

When exposed to elevated temperatures—in excess of 350°F, 176.7°C—the mechanical properties of aluminum are adversely affected. Unfortunately, not all temperature damage from overheating is visually apparent.

Damage from electrical elements heating, steam or hot air may not show on the cylinder surface. To safeguard against this possibility, some cylinders are coated with heat-indicating paint that changes color to alert users if the cylinder has been exposed to excessive heat. The problem here is that not all coatings react at the critical 350°F, 176.7°C temperature established by the CGA.

In addition, coatings of this type have traditionally presented an enormous challenge for hydro-testers saddled with the task of finding a cleaning process that would not damage the soft aluminum cylinder surface. Until now.

**The Department of Transportation (DOT) requires that if any portion of an aluminum cylinder reaches 350 F or higher -it must be condemned as required in the NEW 49 CFR 180.205 Section VII and HM 220D.**

More than a coating, TEMP-ALERT is a complete aluminum cylinder maintenance SYSTEM.

Surface preparation is easily achieved using one of several techniques that safely remove coatings, old labels, and dirt without harming the brushed aluminum finish or removing significant wall thickness.

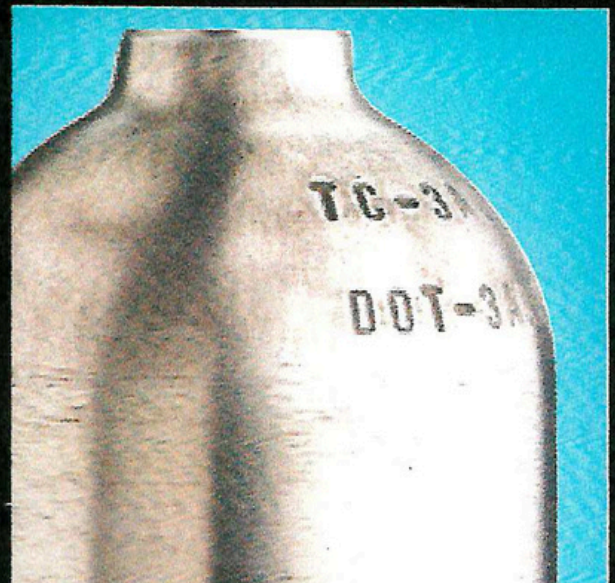
Mechanical surface preparation can be accomplished by abrasive blasting and/or cylinder polishing. Non-woven abrasive wheels, discs, pads and centerless belts have been tested for cleaning effectiveness, cost effectiveness and metallurgical soundness to ensure significant wall thickness of the cylinders is NOT removed. Contact your Watson Coatings representative for more information on mechanical surface preparation for aluminum cylinders.

Water-based TEMP-ALERT is non-flammable and can be spray-applied, thinned and cleaned up with water. The single package coating does not require mixing and is a low odor material with no isocyanates or solvents.

**Water-Based  
TEMP-ALERT™ 350  
Makes It Easy  
to Comply**

TEMP-ALERT is the ONLY water-based coating on the market with precise, reliable, irreversible temperature indicating properties at 350°F, 176.7°C –to keep aluminum cylinder owners in compliance with CGA standards.\*

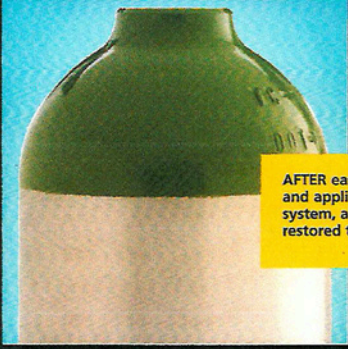
\* Independent Testing Results Available



BEFORE TEMP-ALERT maintenance aluminum cylinders appear unsightly and worn.



AFTER easy surface preparation and application of TEMP-ALERT system, aluminum cylinders are restored to gleaming appearance.



Cylinders should be inspected for corrosion, pitting, cuts, fire and thermal damage and removed from service in accordance with Compressed Gas Association publication C-6.1, "Standards for Visual Inspection of High Pressure Aluminum Compressed Gas Cylinders." Copies of the CGA guidelines may be obtained by contacting: Compressed Gas Association, Inc., 1725 Jefferson Davis Hwy., Suite 1004, Arlington, VA 22202-4102 or by phoning (703) 412-0900, ext. 799.

According to CGA C-6.1, the Department of Transportation (DOT), the Canadian Transport Commission (CTC) and Transport Canada (TC) require that cylinders used for the transportation of compressed gases be periodically requalified by visual inspection followed by hydrostatic testing if they are to remain in service."



**EVERGREEN**  
midwest co.

[evergreenmidwest.com](http://evergreenmidwest.com)

