



TEMP-ALERT™
350

**The ONLY
Heat-Indicating,
Water-Based
Coating System for
Aluminum Cylinder
Maintenance**

WATSON
COATINGS, INC.

... we've got you covered.

TEMP-ALERT[®]
350

**When the heat is on,
We've got you covered.**

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 iVIII and HM 220D.



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.

High-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.

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.

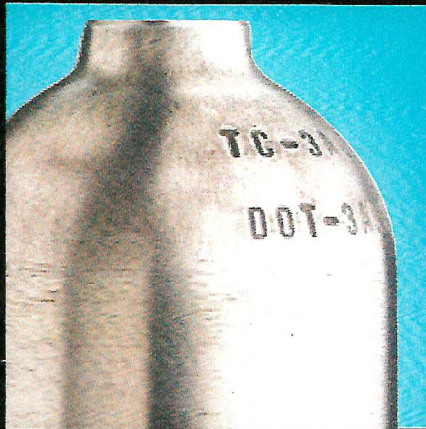
Water-based TEMP-ALERT is non-flammable and can be spray-applied, thinned and cleaned up with water. The single package coating does not require mixing and is a low odor material with no isocyanates or solvents.

**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.*

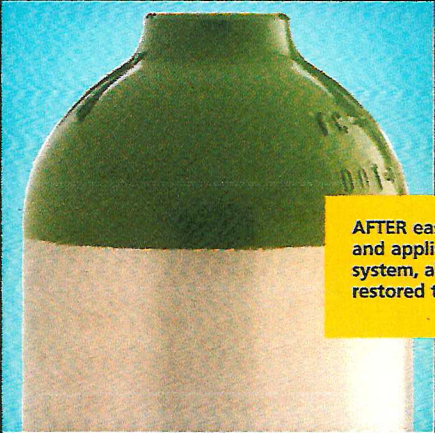
* Independent Testing Results Available





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

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.



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

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."

Water-Based Technology Leaders

When you're looking for the latest in water-based technology, we've got you covered. Since the development of our first water-based coatings in 1986, Watson Coatings has remained in the forefront of VOC compliance with water-based products for OEM and maintenance applications. Regardless of how big we grow, we remain dedicated to serving your needs.

Because wherever you have an aluminum cylinder coatings application... we've got you covered.

WATSON
COATINGS, INC.

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