



Designed for standard use as well as specialty gas applications, Cyl-Tec's Aluminum Industrial Cylinders are light weight, corrosion-resistant, and non-magnetic.

## ALUMINUM INDUSTRIAL CYLINDERS

Cyl-Tec's Aluminum Industrial Cylinders are made of high-strength alloy 6061-T6 and are manufactured to DOT-3AL and TC-3ALM specifications. Due to its lighter weight, aluminum is a perfect choice for any weight-sensitive application.

### APPLICATIONS

- Medical, food and beverage grades of CO<sub>2</sub>
- Ultra-high purity gases for electronics manufacturing, specialty, and calibration gases
- SCUBA, fire & rescue, alternative fuel, and aerospace

### FEATURES & BENEFITS

- Manufactured to DOT-3AL and TC-3ALM specifications
- Light weight for weight-sensitive applications
- Corrosion-resistant, non-magnetic
- Seamless construction

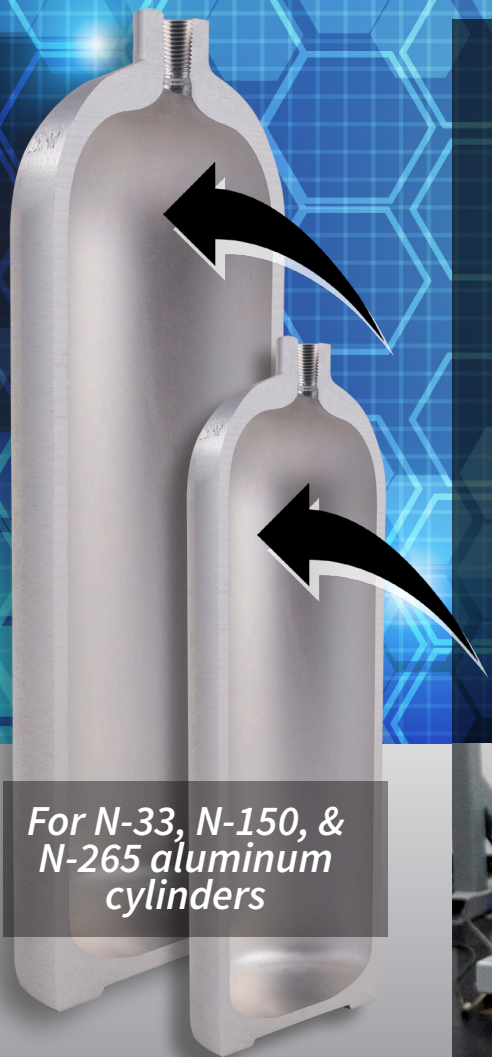
MODEL	N <sub>2</sub> Capacity (at 70°F/21°C)		Service Pressure		Diameter		Height		Weight		Water Volume		Inlet Thread*
	ft <sup>3</sup>	liters	psig	bar	in.	mm	in.	mm	lb.	kg	in <sup>3</sup>	liters	
<b>N-6</b>	5.4	153	2,216	153	3.21	81.4	11.8	300	2.2	1.0	63	1.0	3/4"-16 UNF-2B
<b>N-9</b>	8.3	253	2,015	139	4.38	111.2	11.0	279	3.6	1.6	106	1.7	3/4"-16 UNF-2B
<b>N-22</b>	20.2	572	2,216	153	5.25	133.3	17.2	436	9.2	4.2	236	4.0	1-1/8"-12 UNF-2B
<b>N-33</b>	30.5	864	2,216	153	6.90	175.0	16.0	406	14.2	6.4	355	5.8	1-1/8"-12 UNF-2B
<b>N-47</b>	47.4	1,342	2,132	147	6.90	175.0	23.2	589	20.5	9.3	574	9.4	1-1/8"-12 UNF-2B
<b>N-60</b>	55.1	1,560	2,216	153	7.25	184.1	22.9	582	22.3	10.1	642	10.5	1-1/8"-12 UNF-2B
<b>N-90</b>	80.1	2,268	2,216	153	7.25	184.1	32.7	831	30.0	13.6	933	15.3	1-1/8"-12 UNF-2B
<b>N-150</b>	141.5	4,007	2,015	139	8.00	203.0	47.9	1,216	48.5	22.0	1,800	29.5	1-1/8"-12 UNF-2B
<b>N-200</b>	178.7	5,060	3,000	209	8.60	218.4	41.3	1,049	67.0	30.4	1,590	26.1	1-1/8"-12 UNF-2B
<b>N-265</b>	245.0	6,938	2,216	153	9.80	250.0	51.4	1,305	87.0	39.5	2,831	46.4	1-1/8"-12 UNF-2B
<b>S-80</b>	85.0	2,407	3,000	207	7.25	184.2	26.5	673	31.0	14.1	678	11.1	3/4"-14 NPSM

\* Other threads available by special order.

**PermaProtect®**  
**TREATMENTS**  
 Available

U.S. TOLL FREE **888-429-5832**

[www.cyl-tec.com](http://www.cyl-tec.com)  **Cyl-Tec®**



*For N-33, N-150, & N-265 aluminum cylinders*

# PermaProtect®

## Specialty Gas Pre-treatment System

Our most popular model aluminum cylinders can now be specially prepared by providing long-term stability for calibration gas mixtures.

**PermaProtect®** offers the ideal containment solution for the specialty gas industry.

### HOW?

1. Cylinder's internal surface is polished to a mirror finish ( $Ra \leq 0.05 \mu m$ ).
2. Proprietary treatments are applied to internal surfaces to maintain calibration mixture stability.



## PermaProtect® Available in the Following Cylinder Models

MODEL	N <sub>2</sub> Capacity (at 70°F/21°C)		Service Pressure		Diameter		Height		Weight		Water Volume		Inlet Thread*
	ft <sup>3</sup>	liters	psig	bar	inches	mm	inches	mm	lb.	kg	in <sup>3</sup>	liters	
<b>N-33</b>	30.5	864	2,216	153	6.90	175.0	16.0	406	14.2	6.4	355	5.8	1-1/8"-12 UNF-2B
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\* Other threads available by special order.

## Proven Stability with Mixtures Containing the Following Trace Components\*

Ammonia (NH <sub>3</sub> )	30 PPM	Ethyl Mercaptan (C <sub>2</sub> H <sub>6</sub> S)	5 PPM	Nitrogen Dioxide (NO <sub>2</sub> )	100 PPM
BTEX (Benzene, Toluene, Xylene, etc.)	1 PPM	Formaldehyde (CH <sub>2</sub> O)	5 PPM	Nitrous Oxide (N <sub>2</sub> O)	100 PPM
Carbon Dioxide (CO <sub>2</sub> )	1 PPM	Hydrogen Sulfide (H <sub>2</sub> S)	5 PPM	Sulfur Dioxide (SO <sub>2</sub> )	50 PPM
Carbon Monoxide (CO)	1 PPM	Methanol (CH <sub>3</sub> OH)	5 PPM	Volatile Organic Compounds (VOCs)	1 PPM
Carbonyl Sulfide (COS)	5 PPM	Nitric Oxide (NO)	1 PPM		

\* Parts per million (PPM)

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