



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**

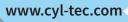
- Manufactured to DOT-3AL and TC-3ALM specifications
- Light weight for weight-sensitive applications
- · Corrosion-resistant, non-magnetic
- Seamless construction

MODEL	N₂ Capacity (at 70°F/21°C)		Service Pressure		Diameter		Height		Weight		Water Volume		Inlet Thread*
	ft³	liters	psig	bar	in.	mm	in.	mm	lb.	kg	in³	liters	
N-6	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
N-9	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
N-33	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
N-47	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
N-60	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
N-90	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
N-150	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
N-200	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
N-265	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
S-80	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.

**Perma**Protect® **TREATMENTS** 

U.S. TOLL 888-429-5832







# 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.

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

### HOW?

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



## **Perma***Protect*® Available in the Following Cylinder Models

	N₂ Capacity (at 70°F/21°C)		Service Pressure		Diameter		Height		Weight		Water Volume		Inlet Thread*
MODEL	ft³	liters	psig	bar	inches	mm	inches	mm	lb.	kg	in³	liters	
N-33	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
N-150	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
N-265	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

<sup>\*</sup> 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, Xyler	ne, 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 (H₂S)	5 PPM	Sulfur Dioxide (SO <sub>2</sub> )	50 PPM
Carbon Monoxide (CO)	1 PPM	Methanol (CH₃OH)	5 PPM	Volatile Organic Compounds (VOC	s) 1 PPM
Carbonyl Sulfide (COS)	5 PPM	Nitric Oxide (NO)	1 PPM		

\* Parts per million (PPM)

