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## CERTIFICATE OF CONFORMANCE

**Keen Compressed Gas Co.** Is Accredited to the ISO/IEC 17025:2017 Testing and Calibration Laboratory Standard. Keen's Quality Management System, Enables Keen to Provide the Highest Level of Testing, Calibration, and Traceability to Meet or Exceed the Minimum Specifications Listed for the Argon Grade Requested.

### ARGON (Ar)

	Industrial <sup>1,6</sup>	Zero <sup>1,4,5,6</sup>	Grade 4.8 <sup>1,5,6</sup>	Grade 5.0 <sup>1,5,6</sup>
<b>Minimum Purity <sup>3</sup>:</b>	99.997	99.998	99.998	99.999
<b>Nitrogen <sup>3</sup>:</b>	≤ 20 ppm	≤ 4.0 ppm	≤ 4.0 ppm	≤ 4.0 ppm
<b>Oxygen <sup>3</sup>:</b>	≤ 5.0 ppm	≤ 5.0 ppm	≤ 2.0 ppm	≤ 1.0 ppm
<b>Hydrogen <sup>8</sup>:</b>	≤ 5.0 ppm	≤ 5.0 ppm	≤ 5.0 ppm	≤ 5.0 ppm
<b>Carbon Dioxide <sup>8</sup>:</b>	≤ 1.0 ppm	≤ 1.0 ppm	≤ 1.0 ppm	≤ 1.0 ppm
<b>Odor:</b>	NT	None	None	None
<b>Total Hydrocarbon <sup>3</sup>:</b>	≤ 1.0 ppm <sup>8</sup>	≤ 0.5 ppm	≤ 0.5 ppm	≤ 0.5 ppm
<b>Moisture <sup>3</sup>:</b>	≤ 10 ppm	≤ 3.0 ppm	≤ 2.0 ppm	≤ 1.0 ppm
<b>Dew Point:</b>	-76°F	-92°F	-97°F	-105°F
<b>Boiling Point:</b>	-302°F	-302°F	-302°F	-302°F
<b>CGA Connection <sup>7</sup>:</b>	580 / 677	580	580, 677	580
<b>Lot Label Tracking:</b>	No	Yes	Yes	Yes
<b>Reference Item No:</b>	AR3	RSG 091	RSG 069	RSG 085
<b>TECHNICAL</b>				
<b>UN ID:</b>	1006		<b>Molecular Weight:</b>	39.95g/mol
<b>DOT Classification:</b>	2.2 Non-Flammable Gas		<b>Specific Volume:</b>	9.7 ft <sup>3</sup> /lb.
<b>DOT Ship Name:</b>	Argon, Compressed		<b>CAS NO:</b>	7440-37-1

#### Notes:

1. Produced by Air Liquefaction Process Which Includes Trace Quantities of Neon & Helium
2. NT – Not Tested
3. Certificate of Batch or Individual Analysis Results Available Upon Request
4. Zero Grade Refers to Total Hydrocarbon Less Than 0.5 ppm
5. Meets MIL-DTL-18455D Type I, Specification
6. Meets AWS A5.32 (ISO 14175)-I1-Ar & CGA G11.1 Type 1, Grade C Specifications
7. CGA Connection 677 for 6000 PSI Cylinders
8. CO<sub>2</sub>, H<sub>2</sub> and THC Results Based on Raw Material Bulk Supplier Certificate of Analysis