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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 Mixed Gas Conformance Requested.

### Mixed Gas – HELIUM (He) and ARGON (Ar)

	INDUSTRIAL <sup>2,3,4,5</sup>	CERTIFIED MIX <sup>3,4,5</sup>	PRIMARY STANDARD <sup>3,4,5</sup>
<b>Helium Pure Gas Minimum Purity<sup>6,7</sup>:</b>	≥99.99	≥99.99	≥99.99
<b>Argon Pure Gas Minimum Purity<sup>1,6</sup>:</b>	≥99.997	≥99.997	≥99.997
<b>Minor Component Specification:</b>	2% – 50% <sup>2</sup>	2% - 50% 10 ppm – 1%	2% - 50% 10 ppm – 1%
<b>Minor Component Tolerance:</b>	≤5.0% -  0.5  Absolute >5.0% +/- 10%	+/- 2%	+/- 1%
<b>Moisture:</b>	≤ 15 ppm	≤ 10 ppm	≤ 8 ppm
<b>Dew Point:</b>	-72°F	-76°F	-80°F
<b>CGA Connection:</b>	580	580	580
<b>Lot Label Tracking:</b>	No	Yes	Yes

TECHNICAL			
<b>UN ID:</b>	1956	<b>DOT Classification:</b>	2.2 Non-Flammable Gas
<b>DOT Ship Name:</b>	Compressed Gas, N.O.S (Helium, Argon) or Compressed Gas, N.O.S (Argon, Helium)		
<b>HELIUM</b>		<b>ARGON</b>	
<b>Molecular Weight:</b>	4g/mol	<b>Molecular Weight:</b>	39.95g/mol
<b>Specific Volume:</b>	96.7 ft <sup>3</sup> /lb	<b>Specific Volume:</b>	9.7 ft <sup>3</sup> /lb
<b>CAS NO:</b>	7440-59-7	<b>CAS NO:</b>	7440-37-1

**Notes:**

1. Produced by Air Liquefaction Process Which Includes Trace Quantities of Neon, Helium and Nitrogen
2. Component Homogenization Results Excluded from Industrial Conformance Guarantee
3. Certificate of Analysis Available Upon Request (*Includes Lot Tracking*)
4. Meets AWS Specification AWS A5.32 (ISO 14175)-I3-HeAr-25
5. Meets AWS Specification AWS A5.32 (ISO 14175)-I3-ArHe-(*varies 5 to 50*)
6. Argon Meets MIL-DTL-18544D Type I, & CGA G11.1 Type 1, Grade C Specifications
7. Helium Meets MIL-PRF-27407D & BB-H-1168C Type I, Grade A and B Specification & CGA G9.1 Type 1, Grade L, N, Specifications