



Accreditation No: 103049



4063 New Castle Ave, Bldg. 4061
New Castle, DE 19720
www.keengas.com
P: (302) 530-2435

Publication Date: 12/22/2020

Revision Date: 12/01/2025

Revision No: 1.2

CERTIFICATE OF CONFORMANCE

Keen Compressed Gas Co. Is Accredited to the ISO/IEC 17025:2017 Testing 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 – CARBON DIOXIDE (CO₂), ARGON (Ar) and HELIUM (He)

	INDUSTRIAL ^{2,3,4}	CERTIFIED MIX ^{2,3,4}	PRIMARY STANARD ^{2,3,4}		
CO2 Pure Gas Minimum Purity:	≥99.8	≥99.8	≥99.8		
Argon Pure Gas Minimum Purity ^{1,5} :	≥99.997	≥99.997	≥99.997		
Helium Pure Gas Minimum Purity ⁶ :	≥99.99	≥99.99	≥99.99		
CO2 Minor Component Specification:	2% – 2.5%	2% – 2.5%	2% – 2.5%		
Ar Minor Component Specification:	7.5% - 55%	7.5% - 55%	7.5% - 55%		
Minor Component Tolerance:	≤5.0% - 0.5 Absolute >5.0% +/- 10%	+/- 2%	+/- 1%		
Moisture:	≤ 22 ppm	≤ 20 ppm	≤ 18 ppm		
Dew Point:	-65°F	-67°F	-69°F		
CGA Connection:	580	580	580		
Lot Label Tracking:	Yes	Yes	Yes		
TECHNICAL					
UN ID:	1956	DOT Classification:	2.2 Non-Flammable Gas		
DOT Ship Name:		Compressed Gas, N.O.S (Carbon Dioxide, Argon, Helium)			
CARBON DIOXIDE		ARGON		HELIUM	
Molecular Weight:	44.01g/mol	Molecular Weight:	39.95g/mol	Molecular Weight:	4g/mol
Specific Volume:	8.74 ft³/lb	Specific Volume:	9.7 ft³/lb	Specific Volume:	96.7 ft³/lb
CAS NO:	124-38-9	CAS NO:	7440-37-1	CAS NO:	7440-59-7

Notes:

- Produced by Air Liquefaction Process Which Includes Trace Quantities of Neon, Helium and Nitrogen
- Certificate of Analysis Available Upon Request (*Includes Lot Tracking*)
- Meets AWS Specification AWS A5.32 (ISO 14175)-M12-HeArC-7.5/2.5
- Meets AWS Specification AWS A5.32 (ISO 14175)-M12-HeArc-(varies 43 to 55) (2)
- Argon Meets MIL-DTL-18544D Type I, & CGA G11.1 Type 1, Grade C Specifications
- Helium Meets MIL-PRF-27407D & BB-H-1168C Type I, Grade A and B Specification & CGA G9.1 Type 1, Grade L, N, Specifications