

KRYPTON-85

Description Krypton-85 is a radioactive gas found in the atmosphere and produced by nuclear explosions, nuclear power plants, volcanoes and earthquakes. Krypton-85 is odorless, colorless and tasteless and emits low level radiation levels of both gamma and beta rays. Krypton-85 is usually produced in gas mixtures with argon or xenon to improve the ionization in light bulbs by reducing their starting voltage. It also is used in plasma displays, spark gaps and for leak detection. Linde Electronics and Specialty Gases' Material Data Safety Sheets are available for krypton-85 gas mixtures and should be used as guidelines in regard to first aid, methods of storage, handling and general use.

Krypton-85 decays by beta decay into rubidium-85, with a half life of 10.756 years and a maximum decay energy of 0.687 MeV (Note: a 687 keV electron — beta particle and a 514 keV photon — gamma ray)

Product Description

Gas Mixture	Balance Gas Purity	Cylinder Size	Internal Volume Water Liters	Volume Liters	Gross Weight lbs/kgs	Nominal Dimensions Diameter x Length (with valve) (in) (cm)	
Kr-85* in Argon Balance or Neon Balance	99.999%	E-20	20	3000	51 / 23	8 x 37	20 x 94
		E-10	10	1500	44 / 20	5.5 x 37	14 x 94
		E-2	2	300	12 / 5.5	4 x 19	10 x 49
		3	16	1500	63 / 29	7 x 36	18 x 91
		4	8	900	31 / 14	7 x 22	18 x 56
		5	3	400	16 / 7	4 x 20	10 x 51
Kr-85* in Xenon Balance	99.999%	E-20	20	3000	51 / 23	8 x 37	20 x 94
		E-10	10	1500	44 / 20	5.5 x 37	14 x 94
		E-2	2	300	12 / 5.5	4 x 19	10 x 49
		3	16	1500	63 / 29	7 x 36	18 x 91
		4	8	900	31 / 14	7 x 22	18 x 56
		5	3	400	16 / 7	4 x 20	10 x 51

* Kr-85 is a radioactive isotope. Desired "activity" must be specified.

Notes:

1. Additional cylinder sizes are available upon request.
2. Other balance gases are available upon request.

Cylinder Valves Available

USA	CGA 580
Europe	DIN 6
China	CGA 580 and others
India	CGA 580 and others
Japan	JIS — inert gas mixtures
Other Countries	For customers in countries that require cylinder valve connections other than CGA, DIN, or JIS please contact Linde so we can accommodate your request.

Linde Electronics and Specialty Gases

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