

# NUCLEAR COUNTER GASES



## Gas Description

The nuclear counter gas mixtures developed at Air Liquide are used in conjunction with appropriate equipment to be used as a quencing gas in Geiger counters for measuring radioactivity and ionization.

### Typical applications :

Gas mixtures of 0.95 percent isobutane are used as quencing gases in Geiger counters.

### Transport Regulations :

**UN number :** 1956  
1954 for P10  
**Class :** 2.2 : Non-toxic, Non-flammable gas  
2.1 : Flammable for P10

## Proportional Counting : P5 - 5% Methane in Argon or P10 - 10% Methane in Argon

Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m <sup>3</sup> )
G	AS 2473	16,600	8.4
E	TYPE 20		4.1
D			1.7

### Recommended Equipment

Dual stage chrome plated brass body regulator with a stainless steel diaphragm.

For further information [Contact](#) the specialty gases representative in your region.

## Geiger Flow Gas : 0.95% Isobutane, Helium Balance

Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m <sup>3</sup> )
G	AS 2673	11,400	5.1
D	TYPE 20		1.0

### Recommended Equipment

Dual stage chrome plated brass body regulator with a stainless steel diaphragm.

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### Quench Gas : 1.3% Butane with Helium Balance

Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m <sup>3</sup> )
G	AS 2473	5,500	2.3
D	TYPE 20		0.5

#### Recommended Equipment

Dual stage chrome plated brass body regulator with a stainless steel diaphragm.

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### 1.5% Propane with Helium Balance

Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m <sup>3</sup> )
G	AS 2473	16,600	7.4
D	TYPE 20		1.4

#### Recommended Equipment

Dual stage chrome plated brass body regulator with a stainless steel diaphragm.

For further information [Contact](#) the specialty gases representative in your region.