

SPECIFICATION



Version: A/0

10% Germane in Hydrogen Mixture

Product Name:	10% Germane in Hydrogen Mixture	Grade:	GeH ₄ : 5N H ₂ : 6N
Formula:	10%GeH ₄ +H ₂	Customer Name:	Powerchip
Application:	Semiconductor		

Mixing Specification:

Chemical Name	Volume%
Germane	9.9~10.1
Hydrogen	BALANCE

Different mixing ratios for GeH₄+H₂ mixed gas are available upon customers' request.

Germane Specification:

Determination	Unit	Specification	Determination	Unit	Specification
GeH ₄	Vol%	99.999min	H ₂ O	ppmv	1.0 max
O ₂ +Ar	ppmv	0.5 max	Ge ₂ H ₆	ppmv	20.0 max
N ₂	ppmv	2.0 max	Ge ₃ H ₈	ppmv	1.0 max
CO	ppmv	1.0 max	Chlorogermanes	ppmv	5.0 max
CO ₂	ppmv	1.0 max	Germoxanes	ppmv	5.0 max
CH ₄	ppmv	1.0 max	H ₂	ppmv	30.0 max

VITAL MATERIALS CO., LIMITED

www.vitalchem.com

Add: Unit 4901-02, International Metropolitan Plaza, No.68 Huacheng Avenue, TianheDistrict, Guangzhou 510623, China Tel: (+86) 20-83511906 Fax: (+86)20-83511907 Sales@vitalchem.com

SPECIFICATION



Hydrogen Specification:

Determination	Unit	Specification	Determination	Unit	Specification
H ₂	Vol%	99.9999 min	CO ₂	ppmv	0.1 max
O ₂ +Ar	ppmv	0.2 max	CH ₄	ppmv	0.2 max
N ₂	ppmv	0.4 max	H ₂ O	ppmv	0.5 max
CO	ppmv	0.1 max	/	/	/

Standard Package:

Cylinder Size:	47.5L Aluminum
Fill Volume	5.0 Nm ³ /1595psig
Valve Connection:	DISS 632
Cylinder Dimensions(in):	9.8×53.9
Cylinder Dimensions(cm):	25×137

VITAL MATERIALS CO., LIMITED

www.vitalchem.com

Add: Unit 4901-02, International Metropolitan Plaza, No.68 Huacheng Avenue, TianheDistrict, Guangzhou 510623, China Tel: (+86) 20-83511906 Fax: (+86)20-83511907 Sales@vitalchem.com