

PV 硅烷气规格书

PV SILANE SPECIFICATION

在工厂发货之前，对硅烷槽车中的硅烷气产品进行气相分析。

Product, as analyzed in module at plant prior to shipment, vapor phase analysis.

浓度

Concentration

杂质	最大值	检测方法
Impurity	Maximum	Test Method
N ₂	0.5 ppmv	GC - DID
O ₂ /Ar	0.05 ppmv	GC - DID
H ₂ O	0.2 ppmv	Moisture Analyzer
CH ₄	0.04 ppmv	GC - DID
C ₂ H ₆ , C ₃ H ₈ , C ₄ H ₁₀	0.10 ppmv	GC - DID
CO	0.05 ppmv	GC - DID
CO ₂	0.05 ppmv	GC - DID
H ₂	20 ppmv	GC - DID
Total Chlorosilanes	0.10 ppmv	IC
Si ₂ H ₆	0.3 ppmv	GC - DID
Total Purity	99.9999 %	

源自硅烷沉积的多晶硅分析

Analysis of polysilicon deposited from silane

Resistivity	> 10,000 ohm-cm	Irvin Curves
P	< 20 ppta	FTIR/FTPL
B	< 20 ppta	FTIR/FTPL
Al	< 20 ppta	FTIR/FTPL
As	< 20 ppta	FTIR/FTPL
Sb	< 20 ppta	FTIR/FTPL
Ga	< 20 ppta	NAA/BD-ICPMS
In	< 20 ppta	NAA/BD-ICPMS
Fe	< 0.4 ppba	NAA/BD-ICPMS
Cr	< 0.01 ppba	NAA/BD-ICPMS
Ni	< 0.2 ppba	NAA/BD-ICPMS
Cu	< 0.02 ppba	NAA/BD-ICPMS
Zn	< 0.03 ppba	NAA/BD-ICPMS