



SEMI AUX024-0712
LIST OF PHOTOVOLTAIC AND SEMICONDUCTOR SHARED GASES
AND LIQUID CHEMICAL STANDARDS

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1 Introduction

1.1 With the expansion of the photovoltaic (PV) industry, SEMI took on the task to develop a number of Standards specific to that industry. This was driven by PV's different technical needs when compared to the existing semiconductor Standards maintained by SEMI.

1.2 In the area of gases and liquid chemicals in particular, it is generally known that the highest of purity grades critical to making microchips are not needed for PV cell production. So, new Standards to fit the needs of PV were warranted.

1.3 However, a number of technically matching Standards necessary for the PV cell production do already exist as semiconductor Standards within SEMI's vast library. They can be used without the need to develop stand-alone PV Standards.

1.4 This Auxiliary Document list those SEMI Standards that can be used interchangeably between the semiconductor and PV industries when producing either microchips or PV cells, respectively.

2 List of Interchangeable Standards

2.1 SEMI Standards

SEMI C3.6 — Specification for Phosphine (PH₃) in Cylinders, 99.98% Quality

SEMI C3.20 — Specification for Helium (He), in Cylinders, 99.9995%

SEMI C3.24 — Specification for Sulfur Hexafluoride (SF₆) in Cylinders, 99.97% Quality

SEMI C3.39 — Specification for Nitrogen Trifluoride (NF₃), 99.98%

SEMI C3.40 — Specification for Carbon Tetrafluoride (CF₄), 99.997% Quality

SEMI C3.56 — Specification for Diborane Mixtures

SEMI C40 — Specification for Potassium Hydroxide, 45% Solution

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3 Revision History

3.1 Initial release – March 2012

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