

## 块状多晶硅规格书

### CHUNK POLYSILICON SPECIFICATION

电子级机械破碎多晶硅块，用于直拉法制备硅晶体。

Prime Electronic - Grade Chunk, MC Chunk. Application: Czochralski silicon crystal growth.

产品编号：92101

Resource No.: 92101

<b>纯度：</b>		
<b>Purity:</b>		
杂质 Impurity	最大浓度 Maximum Concentration	检测方法 Test Method
受主杂质(硼) Acceptor (Boron)	≤ 0.05 ppba	FTIR
施主杂质(磷) Donor (Phosphorus)	≤ 0.15 ppba	FTIR
碳 Carbon	< 4.0 × 10 <sup>15</sup> atoms/cm <sup>3</sup>	FTIR
氧 Oxygen	≤ 1.0 × 10 <sup>16</sup> atoms/cm <sup>3</sup>	FTIR
少子寿命 Lifetime	≥ 1000 μs	少子寿命检测仪 Lifetime Minority Equipment
表面金属 Surface Metals		
(Fe、Cr、Ni、Cu、Zn、Al、K、Na)	≤ 5.5 ppbw	ICP-MS
体金属 Bulk Metals		
(Fe、Cr、Ni、Cu、Zn、Na)	≤ 1.0 ppbw	NAA
<b>电阻率：</b> 电阻率由供需双方协商确定。		
<b>Resistivity:</b> Resistivity value is determined by negotiation between supply and demand sides.		
<b>尺寸：</b> 形状不规则，尺寸分布随机，分布范围应满足：		
<b>Size:</b> Pieces are random and irregularly shaped. The size distribution range:		
< 25 mm	< 5 wt %	
25 – 100mm	> 80 wt %	
> 100mm	< 20 wt %	

**保证:** 每批产品均符合此规范。产品分析报告会包括每批次产品的硼、磷、碳、氧含量。发货批次中至少25%的产品要报告 Fe、Na 和 Zn 的表面金属检测数值。产品纯度分析参考质量控制计划 SI.QCD.001。

**Certification:** Each shipment is certified to comply with this specification. All lots will reported on the Certificate of Analysis for Boron, Phosphorus and Carbon. Surface Metals for Iron, Sodium and Zinc will be reported for a minimum of twenty-five percent (25%) of the lots shipped. Lots are analyzed for purity according to Siemens Quality Plan SI.QCD.001.

**包装:** 双层高纯洁净聚乙烯袋包装, 每袋净重 5.0kg + 0.5%。双层包装可满足洁净室的使用要求。每袋产品均有标签注明产品编号、序列号、批次号和净重。每箱产品 30kg, 外包装箱贴有标签注明产品编号、序列号、批次号和净重。序列号和批次号用于追踪反应器运行编号和生产日期。每 20 箱产品打包为一托盘, 托盘净重 600kg。托盘上均有标签注明生产商名称、打包托盘日期、产品编号、批次号、托盘数量、净重及其它辅助信息 (如: 员工编号、称重日期和托盘条形码)。

**Package:** Pieces are packaged in virgin (no additives) double polyethylene bags with a net weight of 5.0 kg + 0.5%. A double bag system is used for compatibility with clean room requirements. Each bag has a label listing material number, serial number, lot number and net weight. Material will be boxed into 30 kg boxes. Each product box will have a label listing material number, serial number, lot number and net weight. Serial number and lot number are traceable to the reactor run and production date. The lot is loaded with 20 boxes for a total weight of 600kgs. Each lot has a label listing manufacturer's name, datetime, material, lot number, pallet, net weight and other information (employee ID, weight Date and Z-Label).

包装图片

Package Pictures



**外观:** 产品为不规则形状的块状多晶硅。硅块表面洁净，无金属污染、无碳污染、无污渍、不变色。

**Appearance:** Chunks are irregularly shaped. Surface of chunks will be clean with no stains, discoloration or visible contaminants, no metal & carbon contaminants.

**表面形态:** 1-5，无树晶，表面形态分类标准参考标准操作规程：硅棒表面形态 SI.POP3.061。

**Morphology:** 1-5, no dendrite, per Siemens Morphology Classification Standard SI.POP3.061(Morphology).

产品图片

Product Picture

