

Phosphorous Oxychloride

Elementum- (POCl₃)

Product Overview

The POCl₃ diffusion process is used to create the PN-junction of Si solar cells. Concerning the screen- printing process, it is necessary to find a compromise between low emitter recombination, low contact resistance and high lateral conductivity. The formation of a homogeneous emitter during the POCl₃ diffusion process depends on several diffusion parameters, including duration, temperature and gas flow. The n-type emitter of most crystalline p-type silicon solar cells is formed by phosphorus diffusion. This primarily controls the growth of the highly doped phospho-silicate glass (PSG) layer, which acts as a dopant source during the diffusion process.

Features

- Film coated Quartz bubbler
- Foreign/Dust free material
- QC Approval product at every step
- Consistent Assay
- Having element parameters in PPB range

Benefits

- The above features help in achieving consistent efficiency of solar cell.
- No additional filter required during the process.

Handling

- POCl₃ bubblers should be handled after review the Material Safety Data Sheet (MSDS).
- Use and wear appropriate personal protective equipment, Face shield and out resistant gloves recommended when handling quartz bubblers.

Storage

- Store in cool, dry, and ventilated area
- DO NOT store in a metal or glass container. ONLY store in approved containers. (IBC, plastic drums, containers, totes).
- Keep away from strong acids.

Transport

- Lift the bubblers by proper holding from bottom. Do not lift bubbler from the valves.
- Carefully handle the container containing POCl₃.

CAS Number: 10025-87-3

Packing Size: 2.5 Kg

Hazard Classification: 6.1,8

Density (ρ) : 1.68 ρ

UN Number: UN1810

Pictogram:



Corrosive Toxic



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