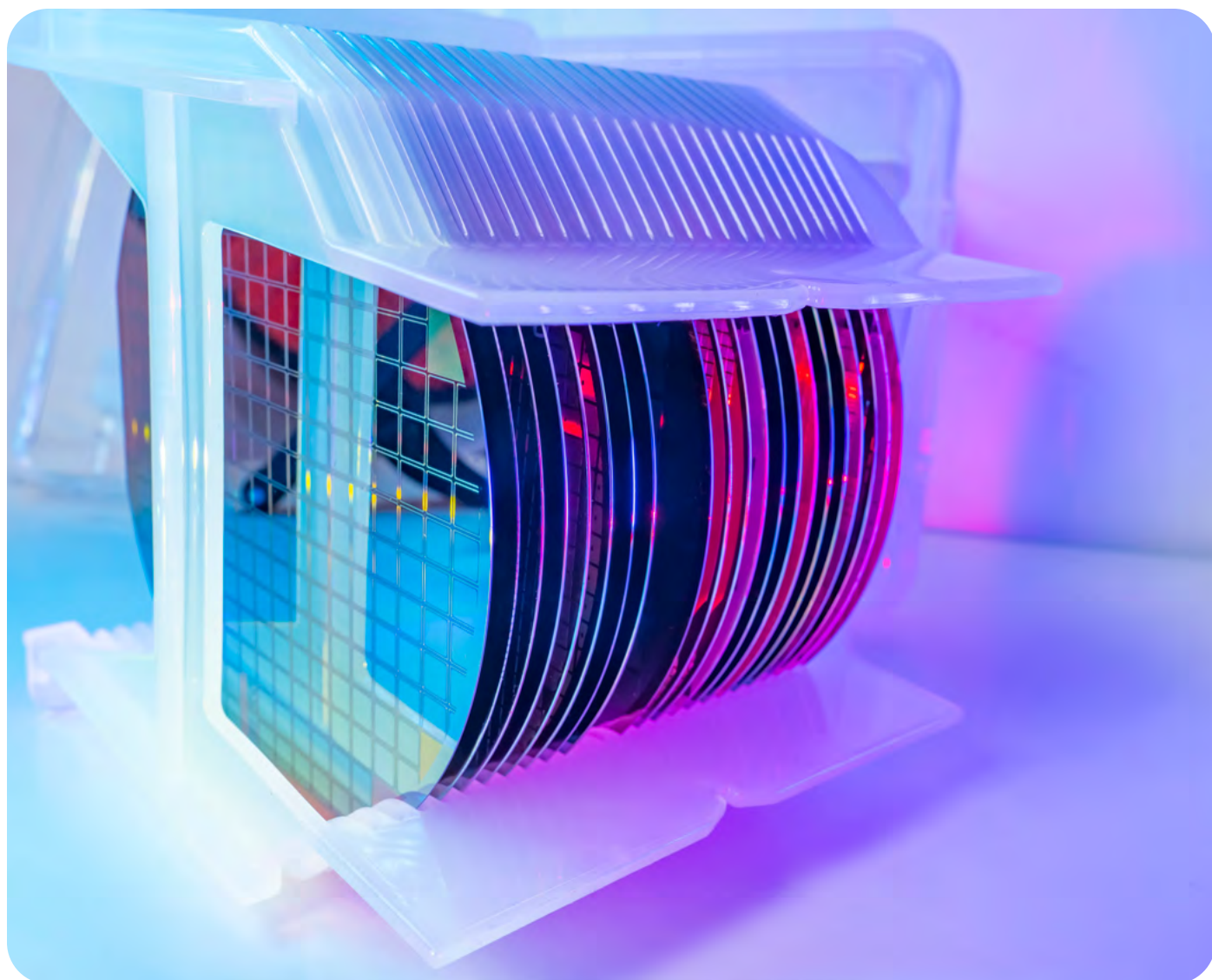


ACCUSPIN® PHOSPHORUS SPIN-ON DOPANT

ELECTRONIC POLYMERS



ACCUSPIN® PHOSPHORUS SPIN-ON DOPANT

POLYMERS FOR ALL N-TYPE DIFFUSION

BENEFITS

- Industry proven performance in analog CMOS, power, discrete and bipolar devices
- Lower maintenance cost than gas or liquid sources
- Unlike POCl₃, there are no special regulatory and customs importation or shipping requirements
- Less toxic than POCl₃; no formation of phosphoric or hydrochloric acid

OVERVIEW

ACCUSPIN phosphorus Spin-on dopants (P-8545 and P-854 2:1) are phosphorus doped silicon oxide polymers designed for n-type base diffusion, n-type emitter diffusion, solar cell doping and poly doping. ACCUSPIN phosphorous Spin-on dopants have been in large volume IC production for over 25 years.

The entire ACCUSPIN phosphorous Spin-on family can be applied using standard spin coaters. ACCUSPIN phosphorus Spin-on dopants reduce the need for costly diffusion furnace tube cleaning or replacement required when using gas or liquid phosphorus dopants.

Because ACCUSPIN phosphorus Spin-on dopants are phosphosilicate materials,

diffusion is more uniform during the drive-in process so sheet resistance and junction depths are repeatable. The use of a Spin-on process eliminates non-uniformity issues due to changes in gas flows of phosphorus sources or differing sheet resistance from placement in the diffusion furnace.

In addition, there are no customs and regulatory issues with importation or shipping of ACCUSPIN phosphorus Spin-on dopants; unlike the problems with shipping and importing POCl₃.

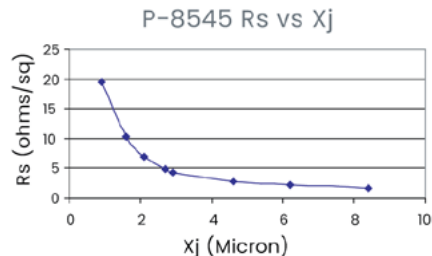
APPLICATIONS

- Bipolar
- Analog CMOS
- Power

ACCUSPIN phosphorus Spin-on dopants provide excellent sheet resistance non-uniformity within the wafer (1%) and from wafer to wafer (2%). ACCUSPIN phosphorus Spin-on dopants have been used in analog CMOS, power, and bipolar device production around the world. ACCUSPIN P-854 2:1 has also been designed for spray coating applications for solar cell production.

FEATURES

Sheet Resistance vs. Junction Depth



Product	Thickness Range
P-8545	2,045Å – 2,450Å
P-854 2:1	1,340Å – 1,640Å

Material Properties

P-8545 Shelf Life @ 0–4°C: 6 months
P-854 2:1 Shelf Life @ 0–4°C: 9 months

Bottle sizes available:
125ml, 250ml, 500ml, 1L, 2L, 4L



For More Information,
[Click Here](#)

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