

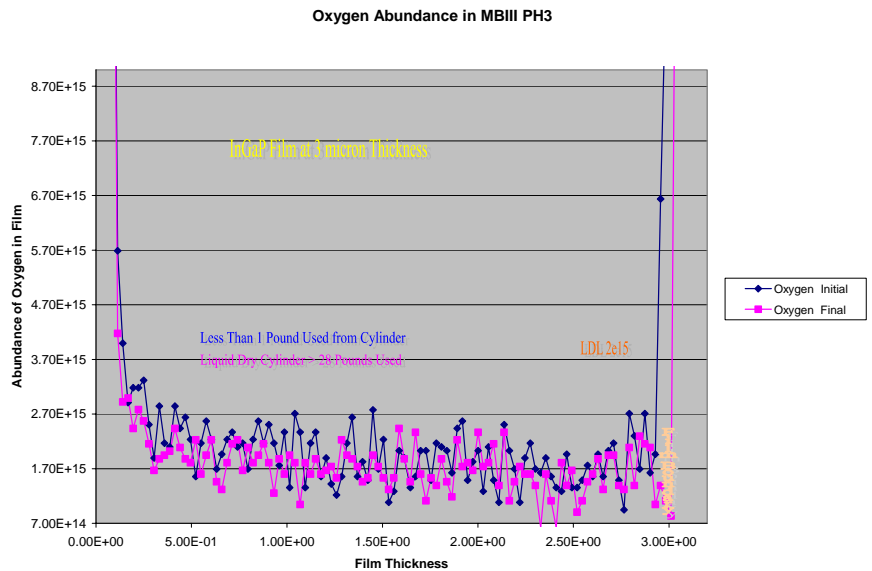
Megabit™ III Phosphine

Consistent Purity from Full to Empty Cylinder

Benefits

- In contrast to other grades of Phosphine, Megabit III Phosphine maintains its purity even when the cylinder is liquid dry
- A 44 liter cylinder filled with 30 lbs of Phosphine will become liquid dry with approximately 6 lbs of Phosphine remaining
- When liquid dry, concentrations of critical impurities (such as O and Ge) increase dramatically in other grades of Phosphine
- The following two slides show comparisons of O and Ge incorporation in 3 micron InP films grown using a 44 liter cylinder initially filled with 30 pounds of Phosphine:
 - Cylinder full (< 1 pound used)
 - Cylinder liquid dry (> 28 pounds used)

Consistent Purity - Oxygen

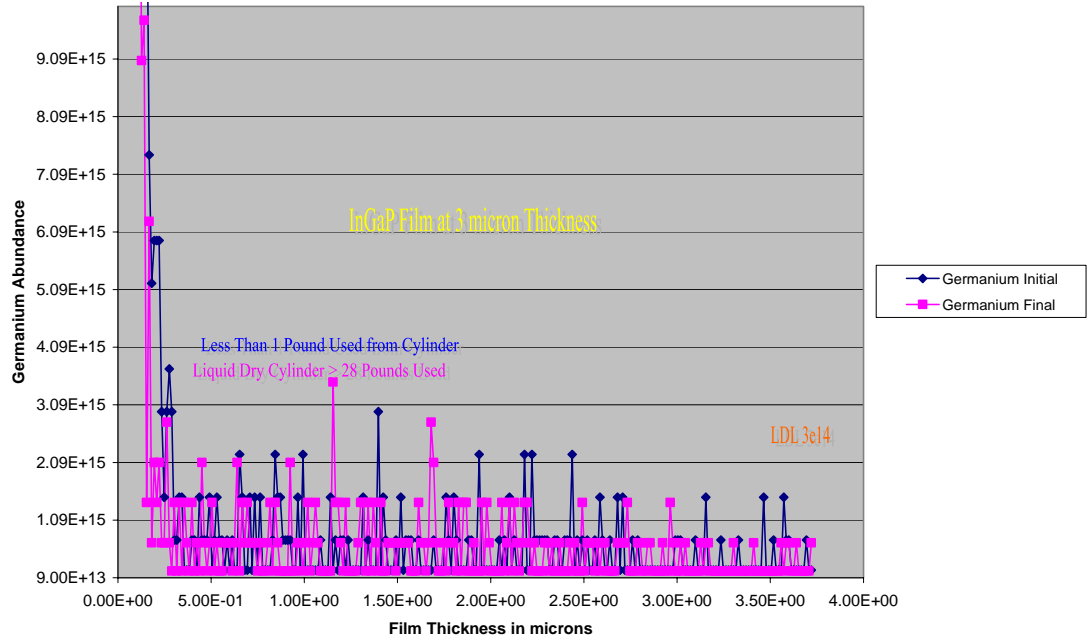


Megabit III PH3 shows no change in oxygen levels from the beginning of the cylinder to liquid dry

Megabit III Phosphine

Consistent Purity - Germanium

Germanium Abundance in MBIII PH3



Megabit III PH3 shows no change in germanium levels from the beginning of the cylinder to liquid dry

*For Samples or More
Information*

If you would like additional information or technical assistance in preparing specific formulations, write or call Air Products and Chemicals, Inc. at the following location.

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