



## COMPUTER CHIP MANUFACTURING

Our website states that “An ounce of prevention is worth a pound of cure”. Truer words were never spoken when the slightest trace of sulfur in the gases used in the manufacturing process causes catastrophic failure of the product.

Even the highest purity gas when stored in metal cylinders at high pressure, then fed through a metal pressure regulator and tubing to get to the point of use becomes contaminated with traces of sulfur because even the highest grade, 316L stainless steel, typically has 300 ppm of sulfur in its alloy. Luckily, the solution is simple, install the point-of-use H<sub>2</sub> FINAL FILTER® to reduce the sulfur content to below the limit of detection of 200 ppt as determined by the world authority on gas analysis.

The H<sub>2</sub> FINAL FILTER® Mini-HT shown is available with standard Swagelok ends in a variety of sizes. The SULFUR MAGNET™ contained within the filter housing provides unsurpassed capacity and tenacity, with the same affinity for sulfur as palladium, but with a much higher capacity and at a far lower cost.

### How powerful is the SULFUR MAGNET™

#### Inside the H<sub>2</sub> FINAL FILTER® Mini-HT?

The volume of sulfur containing gas that a H<sub>2</sub> FINAL FILTER® Mini-HT can treat:

Sulfur conc. in gas	Liters	Cubic meters	Cubic feet
1,000 ppm	1,410	1.4	49.8
100 ppm	14,100	14.1	497.9
10 ppm	141,000	141	4,979
4 ppm*	352,500	352.5	12,488
1 ppm	1,410,000	1,410	49,794
100 ppb	14,100,000	14,100	497,937
10 ppb	141,000,000	141,000	4,979,368
4 ppb**	352,500,000	352,500	12,488,420
1 ppb	1,410,000,000	1,410,000	49,793,680



The H2 FINAL FILTER Mini-HT

