

## New Liquid CO<sub>2</sub> Purification Technologies

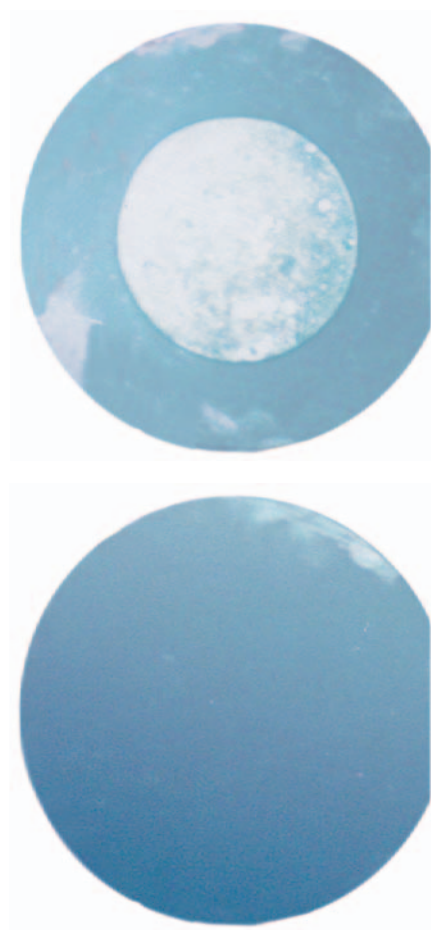
- Produce SFC/SFE grade CO<sub>2</sub> from Coleman grade CO<sub>2</sub>
- Remove oxygen, moisture, sulfur compounds, halocarbons, and most hydrocarbons

### Description

In applications such as environmental testing, food analysis, and pigment analysis, the unique solvating properties of CO<sub>2</sub> at its triple point (super-critical stage) are exploited in the extraction of compounds from difficult matrices. Since any contaminants that may be present in the CO<sub>2</sub> will be concentrated in the sample, only ultra-pure CO<sub>2</sub> is acceptable for this type of work.

VICI Metronics has recently developed a new CO<sub>2</sub> purification technology (patent pending) which can take Coleman grade CO<sub>2</sub> and produce SFC/SFE grade CO<sub>2</sub> at the point of use, resulting in significant cost savings. Removal of oxygen, moisture, sulfur compounds, halocarbons, and most hydrocarbons are all accomplished with this unified CO<sub>2</sub> purification technology.

Applications from analytical instrument point of use to process scale are presently being developed in the labs of VICI Metronics. For more information or to discuss the particulars of your application contact VICI Metronics at [metronics@vici.com](mailto:metronics@vici.com).



Silicon wafers cleaned with supercritical CO<sub>2</sub> before purification (top) and after (bottom)