Analytical Components & Systems

VICI Metronics

New Liquid CO_2 Purification Technologies

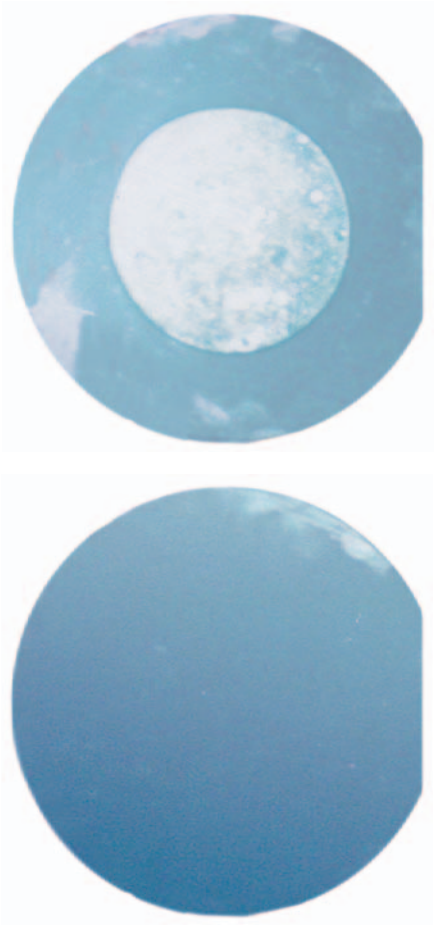
- Produce SFC/SFE grade CO_2 from Coleman grade CO_2
- Remove oxygen, moisture, sulfur compounds, halocarbons, and most hydrocarbons

Description

In applications such as environmental testing, food analysis, and pigment analysis, the unique solvating properties of CO_2 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_2 will be concentrated in the sample, only ultra-pure CO_2 is acceptable for this type of work.

VICI Metronics has recently developed a new CO_2 purification technology (patent pending) which can take Coleman grade CO_2 and produce SFC/SFE grade CO_2 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_2 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.



Silicon wafers cleaned with supercritical CO_2 before purification (top) and after (bottom)

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