



SO₂Clean™

High purity SO₂

An Alternative to Burning Sulfur in Air

SO₂Clean™ is a proven, commercial, environmentally friendly and proprietary technology that was developed by Calabrian in the early 90's to produce high purity sulfur dioxide by burning sulfur in oxygen rather than air.

Burning sulfur in pure oxygen offers significant advantages – nitrogen and other inerts are not present which significantly reduces downstream equipment size/costs, eliminates gas separation/operational complexities and dramatically simplifies air permitting...

There are no emissions, it is a closed system!

The technical merits of pure SO₂ as a reagent in many industrial applications is widely known. Unfortunately inferior reagents have been chosen historically for various large scale applications because of supply chain complexities...until now. The successful commercialization of the SO₂Clean™ process enables the use of SO₂ as a reagent in applications where transportation issues made its use impractical or uneconomical.

Calabrian will construct, own and operate a fence-line SO₂Clean™ plant and deliver low cost SO₂ via pipeline directly to the point of use.

Ease of Operation/Reliability Safe/ Environmentally friendly

- Proven technology with long history
 - 20+ years of commercial operation
 - 8+ yr. pipeline connection to Fortune 100 chemical manufacturer
- Documented very high on-stream time factor
- Immediate shutdown/startup controlled by oxygen flow rate
- Very High Turndown Ratio
- Small equipment size/footprint...no inerts in gas stream
- Easily expandable modular design
- Multiple train design affords flexibility
- Produces high purity SO₂ for easy condensing and liquid backup if needed
- No moving parts in contact with gaseous SO₂... low maintenance
- Computer controlled and operated

Safe / Environmentally friendly

- No process air discharges...closed system
- No NO_x or SO_x emissions
- No process liquid discharges
- Low pressure operation
- No moving parts in contact with gaseous SO₂
- Dry process <1 ppm acid
- Rapid shutdown/startup without harm to equipment
- No refractories, so no refractory failures



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