

SSBrom™ the **Green Bio Control** for **Hydrofracture Water**

Toxic biocide chemicals are used to control the growth of formation plugging microorganisms during Marcellus hydrofracture procedures. These products can contaminate aquifers and surface waters and are a toxic spill danger from transport, storage, and use.

SSBrom technology is the only effective microorganism control technology that **eliminates use of all toxic chemicals.**



ProChemTech developed the **SSBrom** as a safe, cost effective means for making aqueous electrolytic bromine from the bromide ions found within the hydrofracture water to control microorganisms. Shown in the picture is a frame mounted **SSBrom** power supply and patent pending graphite electrolytic cell assembly that makes up a basic **SSBrom**. The only limitation on the technology is that a recycle hydrofracture water program with a minimum conductivity of 4000 mmhos be in use.

Green Advantages

- Electrolytic bromine degrades back to harmless bromide ion, no toxic chemical residue in the flowback water.
- Electrolytic bromine is produced within a sidestream of the hydrofracture water during use, no risk of accidental spills of any chemicals during transport, in inventory, or during use.
- USEPA registered, SSBrom units are produced in USEPA registered facilities, USEPA #58616-PA-1 and 58616-AZ-1.
- **SSBrom** halogen chemistry is effective against all microorganisms.
- **No toxic chemical feeds required!**

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