

- chemical precipitation using iron hydroxide.

For precision desulphurization, impregnated or doted activated carbon is normally used (catalytic oxidation and following adsorption).

Alternatively, chemisorption on iron oxide- or hydroxide-coated materials in an external column can be applied for precision desulphurization. Chemisorption using zinc oxide in external columns is basically also applicable, but currently not state-of-the-art for precision desulphurization of biogas.

The six most widespread technologies are

1. pressure swing adsorption,
2. water scrubber,
3. physical absorption (using organic solvents),
4. chemical absorption (using organic solvents),
5. high-pressure membrane separation and
6. cryogenic upgrading.

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