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• 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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