

Fischer Tropsch Process

1 Reactor Technologies

Slurry 3- ϕ Reactor

- + continuous catalyst removal/exchange
- + excellent temperature distribution and control
- **challenging separation of wax and catalyst**
- **abrasion**

Fixed Bed 2- ϕ Reactor

- + easy separation of liquid products
- **high pressure drop**
- **offline catalyst removal/exchange**
- **considerable temperature gradients**

Fluidized Bed 2- ϕ Reactor

- + virtually isotherm
- + high conversion
- **only for high temperatures to avoid wax agglomeration**
→ only short-chain hydrocarbons
- **abrasion**

2 Operating Conditions

Impact on product distribution

Operating conditions		Chain growth probability α	Olefin / Paraffin ratio	Branching	Oxygenates	Methane
	GHSV	↑	↑		↑	↓
	Temperature	↓		↑		↑
	Pressure	↑		↓	↑	↓
	Inlet H_2/CO ratio	↓	↓	↑	↓	↑

3 Catalysts

Iron

- WGS active → variable H_2/CO inlet ratios
- produces rather complex product mix
- wide possible temperature range
→ LTFT and HTFT reasonable

Promoters: Na, K, Cu, MgO, Mn, Zr, Ni

Cobalt

- no WGS activity
- produces mostly paraffins
- excessive methane formation at high temperatures → only LTFT recommended

Promoters: Pt, Ru, Re, Ag, Rh, Zn, K

Supports

Common: Al_2O_3 , SiO_2 , TiO_2

Current Research: SiC, zeolites

Affect: reducibility, mechanical resistance, adsorption properties, electron density on surface, surface area, dispersion

Bi-functionality

Function: modification of the product distribution by an acid-forming material in the reactor

Reactions: hydrocracking, hydroisomerization

Acid donors: zeolites, alumina, silica, carbon

Frontiers And Tasks Of Catalysis Towards The Next Century Proceeding

E Durkheim



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