

*
-
- (// , //)

[]

()
C₂
()

[]

C₂

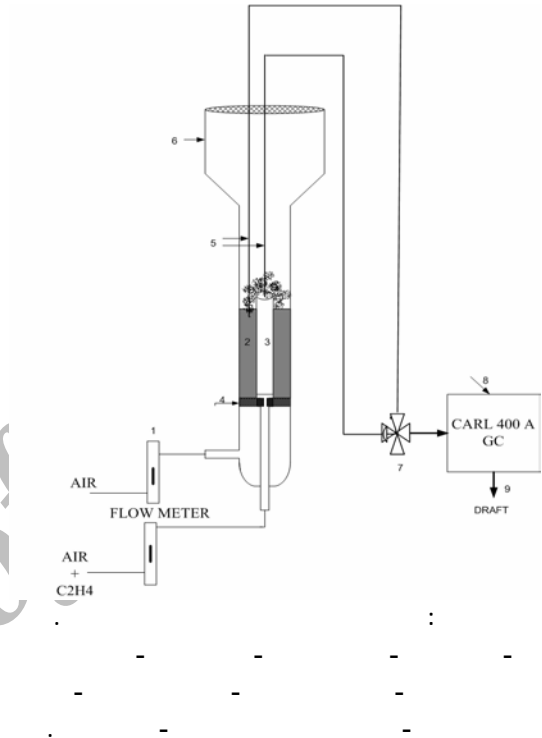
[]

Mn/Na₂WO₄/SiO₂

[-]

[]

(W_s)



Archive SID

[-]

() []

(())

/ - /

(U_m)

/ -

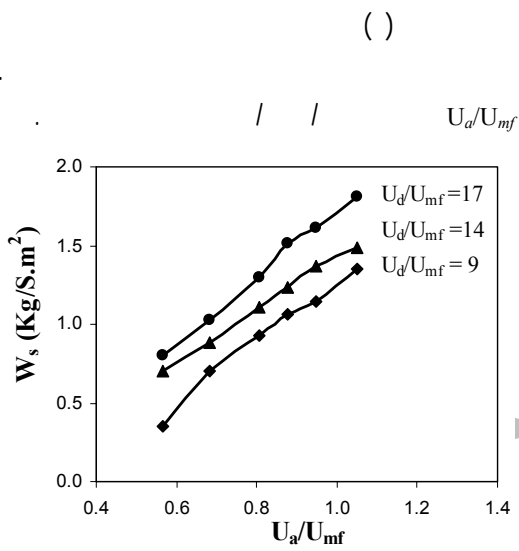
$$d_p = \dots \mu\text{m} \quad \rho_s = \dots \text{g/cm}^3$$

Carl 400 A

[]

$$\varepsilon_{mf} = \dots$$

$$U_{mf} = \dots \text{cm/s}$$



U_a : cm / mm

U_{mf} : cm / mm

$$W_s = \rho_s V_a (1 - \varepsilon_{mf}) \quad ()$$

U_a

W_s

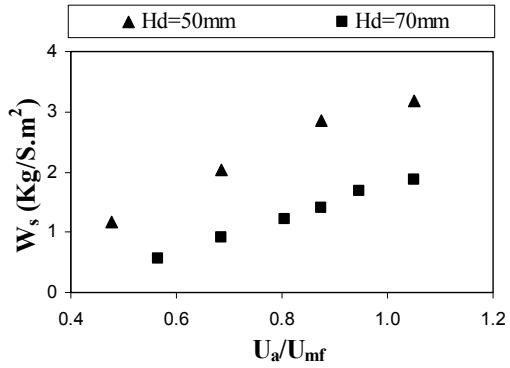
() U_a

/ - /

$U_d/U_{mf} =$

()

U_d/U_{mf} W_s U_d

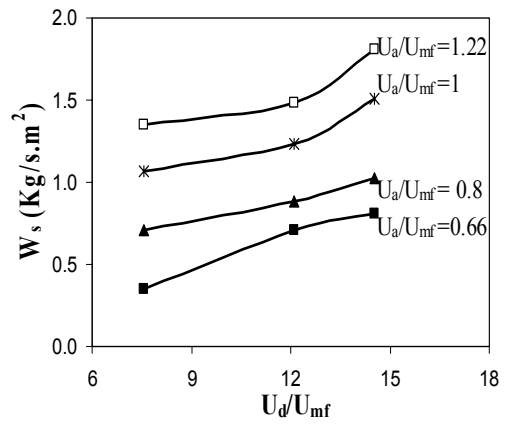


U_a

() ()
 U_d

/ cm cm
 $U_d/U_{mf} =$ / mm

()



U_a :

cm

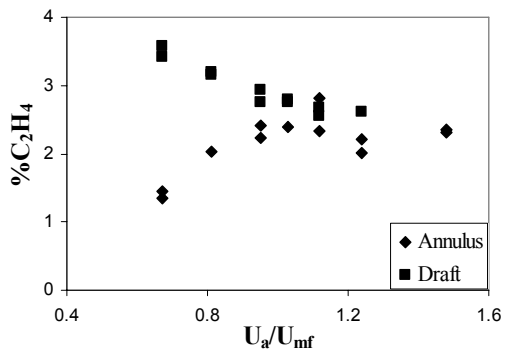
()

()

/ mm

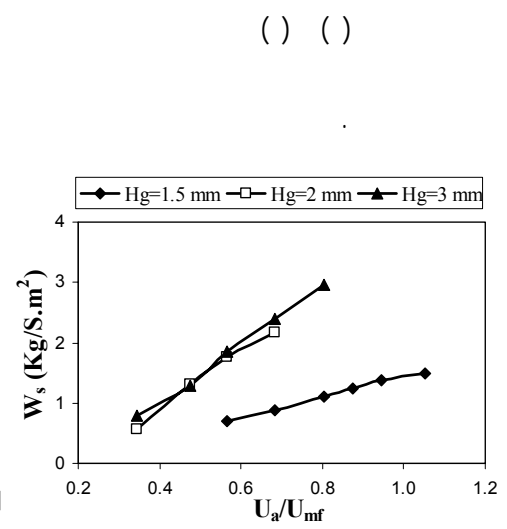
/ cm

cm

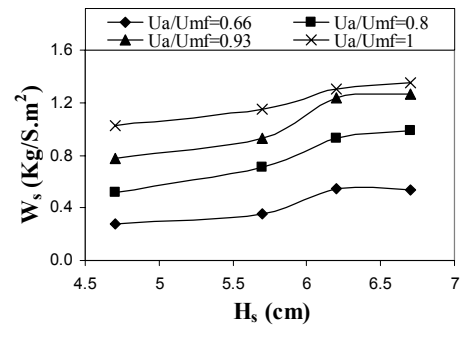


cm
/ mm
%
 $U_a/U_{mf} =$ /

cm	%
/	/
/	/
/	/
/	/
/	/
/	/



cm
 $U_a/U_{mf} =$ / cm

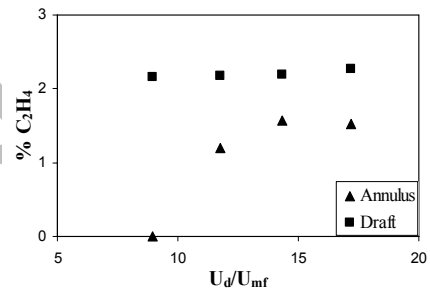


cm
 $U_a/U_{mf} =$ / mm

()

()

U_d



cm
/ mm
%

cm

$U_d/U_{mf} = /$

: d_p [μ m]

: H_d [cm]

: H_s [cm]

: H_g [mm]

: U_d [cm/s]

: U_a [cm/s]

: U_{mf} [cm/s]

: V_a

[m/s]

: ρ_s [Kg/m³]: W_s [kg/m²s]: ϵ_{mf}

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1 - Hot Spot

3 - Two Zone Fluidized Bed Reactor-TZFBR

5 - Internally Circulating Fluidized Bed-ICFB

7 - Annulus

9 - Tracer

2 - Oxidative Coupling of Methane-OCM

4 - Redox Catalyst

6 - Draft Tube

8 - Cold Model