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(// // //)

() (SDS)

SDS SDS

SDS

C_s

$$D_{32}/D = 0.05C_s(1+2.316\phi)(D/d_T)^{-0.75}Fr^{-0.13}We^{-0.6} \quad ()$$

C_s
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(D_{32})

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/

()

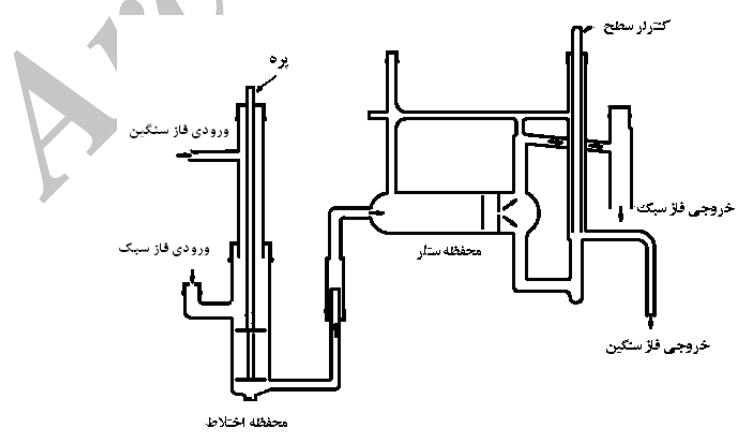
Krüss)

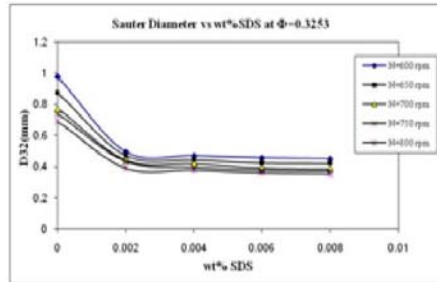
(GmbH, Hamburg, Germany

DSC-F828

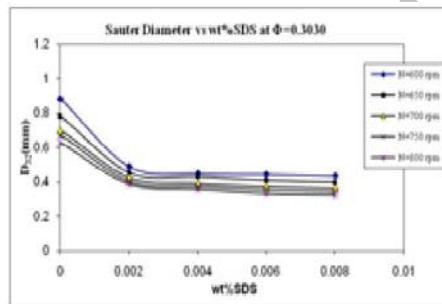
[](D_{32})

		ϕ	N(rps)	
()		/ /		
()	$D_{32}/D = 0.05C_s(1 + 2.316\phi)(D/d_T)^{-0.75}Fr^{-0.13}We^{-0.6}$	/ /	-	
()	$D_{32} = 6\phi \left\{ 1 + \left(\frac{c_1}{We\phi} \right)^2 \right\} (c_2\phi^2 + c_3\phi)$ $D_{32}/D = 0.0336We^{-0.6}(1 + 13.76\phi)$ $D_{32}/D = 0.0286We^{-0.6}(1 + 13.24\phi)$	/ /		

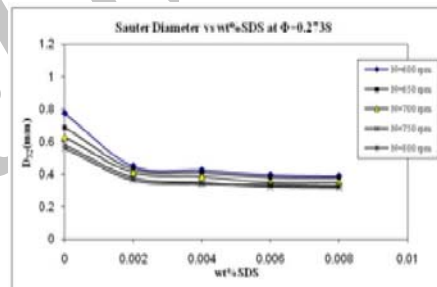




$\Phi = /$



$\Phi = /$



$\Phi = /$

		SDS							
		wt / % SDS		wt / % SDS		wt / % SDS		wt / % SDS	
<i>a</i>	/	/		/		/		/	
<i>b</i>	/	/		/		/		/	
<i>c</i>	/	/		/		/		/	
<i>d</i>	/	/		/		/		/	
<i>e</i>	/	/		/		/		/	
R^2	/	/		/		/		/	

$$\frac{D_{32}}{D} = 0.021 (1 + 3.06\phi^{0.44})^{2.60} We^{-0.522} \quad ()$$

we
/

(AARD%)
()

$$\frac{D_{32}}{D} = a(1 + b\phi^c)^d We^e \quad ()$$

e d c b a

$$\%AARD = \frac{1}{N} \sum_{i=1}^N \left| \frac{(\frac{D_{32}}{D})_{exp}^i - (\frac{D_{32}}{D})_{model}^i}{(\frac{D_{32}}{D})_{exp}^i} \right| \times 100 \quad ()$$

% AARD
/
/
/
/
/

SDS / / () /
:()

$$\frac{D_{32}}{D} = 0.025 (1 + 3.55\phi^{0.74})^{2.98} We^{-0.603} \quad ()$$

SDS / / () /
:(/)

$$\frac{D_{32}}{D} = 0.012 (1 + 2.84\phi^{0.36})^{2.29} We^{-0.388} \quad ()$$

SDS / / () /
:(/)

$$\frac{D_{32}}{D} = 0.016 (1 + 2.61\phi^{0.41})^{2.33} We^{-0.406} \quad ()$$

SDS / / () /
:(/)

$$\frac{D_{32}}{D} = 0.022 (1 + 2.91\phi^{0.39})^{2.55} We^{-0.532} \quad ()$$

SDS / / () /
:(/)

AARD%

() ()

()		: C_s	(mm)	: D_{32}
(Pa.s)		: μ_d	(mm)	: D
		: α	(mm)	: d
$V_i = \frac{\mu_d ND}{\sigma}$: V_i	(rpm)	: N
		: a	$We = \frac{\rho_c N^2 D^3}{\sigma}$: we
		: b		: Fr
		: C_1	(mm)	: d_T
		: C_2	()	: ϕ
		: C_3	(mN/m)	: σ
		: n	(kg/m ³)	: ρ_c

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- 1- Hoffer and Resnick
 - 2- Tcholakova
 - 3- Lee and Soong
 - 4- Hong and Lee
 - 5- Skelland and Jeffrey
 - 6- Hinze-Kolmogorov

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