

Scanned with CamScanner

A1 = 1x2 = 2
$$\Rightarrow$$
 xd² \Rightarrow d1 \Rightarrow \Rightarrow xd² \Rightarrow d2 \Rightarrow xd² \Rightarrow d2 \Rightarrow xd² \Rightarrow d2 \Rightarrow xd² \Rightarrow xd

$$L^{3} = \frac{\times 0^{3}}{6}$$

$$L = \left(\frac{\times}{6}\right)^{\frac{1}{2}} \left(\frac{1}{5}\right)$$

$$\frac{\pi s^2}{6L^2} = \left(\frac{\pi}{6}\right) \left(\frac{1}{7/2} \frac{1}{1/3}\right)^3$$

$$= \left(\frac{\pi}{6}\right)^{\frac{1}{3}}$$

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(3) -> Sand mixture was screened through 12 mesh. Screen Analysis reach series is identified in meshes per inch. According to Tyler Somen Sories mesh screen => 0.074 mm. Is Area of next screen smaller screen is swill the next Ideal Screen under flow Parsiell in overflow > & largost particle in underflow. Cut-Diameter Screen effectiveness read.

[] pour dow (Over size) Dpc > equal to mesh opening. F=D+B] underfow FXF = DXD+ BXB

$$E_{\Omega} = \frac{\text{Oversize material } A \text{ in the overflow}}{\text{Total ensering in Fead}}.$$

$$= \frac{D \times D}{F \times F}$$

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$$E_B = \frac{B(1-X_B)}{F(1-X_F)}$$
 Under size marerial in under flow
Total entering in Feed.

$$E = EAXEB \Rightarrow DBXD(1-XB)$$

$$F^{2}X_{F}(1-X_{F})$$

$$B'_{F} = \frac{XD-XB}{XD-XB}$$

$$\Rightarrow \frac{(x^{D-XB})}{(x^{D-XB})} \times \frac{(x^{D-XB})}{(x^{D-XB})} \times \frac{x^{E\times(I-XE)}}{(x^{D-XB})}$$

$$E = \frac{D}{P} \times \frac{B}{F} \times \frac{\left(\times_{D} \right) \left(1 - \times_{B} \right)}{\times_{F} \left(1 - \times_{F} \right)} \times \frac{X_{F} = 0.4}{X_{D} = 0.8}$$

$$= \left(\frac{X_{D} + X_{D}}{X_{D} - X_{B}} \right) \times \left(\frac{X_{D} - X_{F}}{X_{D} - X_{B}} \right) \times \left(\frac{X_{D}}{X_{F}} \right) \left(\frac{1 - \times_{B}}{1 - \times_{F}} \right)$$

$$= \left(\frac{X_{D} + X_{D}}{X_{D} - X_{D}} \right) \times \left(\frac{X_{D} - X_{F}}{X_{D} - X_{F}} \right) \times \left(\frac{0.8}{0.4} \right) \left(\frac{0.8}{0.4} \right)$$

$$= \left(\frac{0.4 - 0.2}{0.8 - 0.2}\right) \times \left(\frac{0.8 - 0.4}{0.8 - 0.2}\right) \times \left(\frac{0.8}{0.4}\right) \left(\frac{0.8}{0.6}\right)$$

$$= \frac{0.2}{0.6} \times \frac{0.4}{0.6} \times \left(\frac{2}{2}\right) \times \frac{0.8}{0.6}$$

$$= \frac{2}{2} \times 10 \times 10^{2} = \frac{16}{27}$$

$$= \frac{16}{27}$$

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$$E = \frac{D}{F} \times \frac{B}{F} \times \frac{(\times_{F})}{(\times_{F})} \times \frac{(1-\times_{B})}{(1-\times_{F})}$$

$$\mathcal{E} = \frac{(x_0 - x_B)}{(x_0 - x_B)} \times \frac{(x_0 - x_B)}{(x_0 - x_B)}$$

$$\frac{0.5}{(x_{D}-0.05)} = \frac{0.7}{(x_{D}-0.05)} \times \frac{(x_{D}-0.75)}{(x_{D}-0.05)} \times \frac{x_{D}}{0.75} \times \frac{0.95}{0.25}$$

$$0.5 = 3.54 \left(\frac{x_0^2 - 0.75 \times b}{x_0^2 - 0.1 \times b + 0.0025} \right)$$

estimation =>
$$\frac{3}{50}$$

0.5 = 3.54 ($\frac{5}{5}$ ($\frac{5}{5}$ ($\frac{5}{5}$ ($\frac{5}{5}$))

0.5 × $\frac{5}{5}$ = 3.54 × $\frac{5}{5}$ = 3.54 × $\frac{5}{5}$ = 3.54 × $\frac{5}{5}$ = 3.54 × $\frac{5}{5}$

$$2.605 = 3.04 \times 0$$

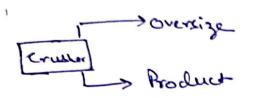
 $\times_0 = \left(\frac{2.64}{3.04}\right) = \boxed{0.868}$

1-x0 > fines consentration in overflow

1-14

$$F \Rightarrow 100 \text{ Jonne}$$
 $P = \frac{x_{B} - x_{B}}{(x_{D} - x_{B})} = \frac{0.75 - 0.05}{0.86 - 0.05}$

$$= \frac{0.7}{0.81} = 0.864$$



$$B = 100 \text{ mg/n}$$
 $X_f = 0.060 \text{ 0.694}$
 $X_5 = 0.113$

$$\epsilon = \left(\frac{D}{F}\right)\left(\frac{B}{F}\right)\left(\frac{XB}{(XF)}\right)\left(\frac{1-XB}{(1-XF)}\right)$$

$$= \left(\frac{\chi_{c-xB}}{\chi_{o-xB}}\right) \left(\frac{\chi_{o-xE}}{\chi_{o-xB}}\right) \left(\frac{\chi_{o}}{\chi_{e}}\right) \left(\frac{\chi_{o}}{\chi_{e}}\right)$$

$$= \left(\frac{0.694 - 0.113}{0.764 - 0.113}\right) \left(\frac{0.764 - 0.694}{0.764 - 0.113}\right) \left(\frac{0.168}{0.146}\right) \left(\frac{1 - 0.113}{1 - 0.146}\right)$$

$$= \frac{0.581}{0.055} \times \frac{0.070}{0.055} \times \frac{0.7684}{0.055} \times \frac{0.887}{0.854}$$

$$= \frac{3 \times 2/5 \times 1.195}{5 \times 3/5 \times 1.195} = \frac{0.306}{5 \times 3/5 \times 1.195} = \frac{8}{5 \times 3/5 \times 3/5 \times 1.195} = \frac{10.306}{5 \times 3/5 \times$$

$$\mathcal{E}^{Ie} = \left(\frac{x^{D-XB}}{x^{L-XB}}\right) \left(\frac{x^{D-XB}}{x^{D-XE}}\right) \left(\frac{x^{L-XB}}{x^{D-XB}}\right) \left(\frac{x^{L-XB}}{x^{D-XB}}\right)$$

$$= \left(\frac{0.55}{0.76}\right) \left(\frac{0.76-0.55}{6.76}\right) \left(\frac{0.76}{0.55}\right) \left(\frac{1}{0.45}\right)$$

$$= \frac{0.55 \times 0.21}{976} \times \frac{0.76}{0.76} \times \frac{0.76}{0.55} \times \frac{1}{0.45}$$

$$= 21\times100 - 10.61$$

$$= \frac{21\times100}{76\times45} = \frac{0.61}{9}$$

$$= \frac{3}{76\times45} = \frac{\times0.25}{\times0.25} = \frac{3}{100} = \frac{\times0.25}{\times0.25} = \frac{3}{100} = \frac{$$

$$\frac{2}{F} = 0.76 - 0.55$$

\bigoplus	Mesh No	/ Retained	Screen Opening U.699	(Dpi) avg	ni/5p:	1 21	
۵	-4+6	S (0.0S)	3.327	4.013	6.01245		
: 8	-6+8	6.2 (0.062) -	- 2-362	2.8445	0.02179		
10	-8 +10	13.0 (0.13)-	1.651	12.0065	0.06478		
Š		16.6 (0.166	1	1	0.11777		
= 14 = 20	-10+14	15.0 (0.150)			0.14997		
	-14 +20 -20 +28	12.4 (0.124)			0.17440		
: 28	-28 +35	1	· - · 0-417		0.1789.2		
48	-35+48	8.2 (0.082	-) 0-295	0.356	1		
65	-48 +65	s.o (o.os	/		0.19880		
امعا	- 65 +100	4-8 (0.04			0.26294		
: 150	-100+150	1.5 (0.03)	3)-1-0.109				
200	-150 +200	1.5 (0.013			= 1.85106		
	-Specific	C	· _	<u>.</u>	š ———		
(Surface	> =====================================	- Xi Dai				
	Area	- As Bb	- 7.	<i>→</i> -	Jaking Sph	iricity	
\Rightarrow 6×1.65106 = 59 cm ² / ₆							
5 ×10-4 × 0.39 74 cm²/g ~ Varies from 0.079 - 0.43/							

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