

MATERIALS DETAILSSynthetic Polyacrylamide Flocculent for neutral thickener

Synthetic polyacrylamide flocculent is required to be added in the feed slurry to neutral high rate thickener to form bigger flocs of the solids presents in the feed so as to enhance its settling rate in the thickener to produce thick under flow solid slurry and perfectly clear overflow liquor.

Other details are:-

(1) PH of feed slurry	-	7.0 to 8.0	
(2) % solid feed slurry	-	20 to 25 %( w/w)	
(3) Size of solid in feed	-	-325mesh	- 40%
		-200 + 325mesh	- 30%
		+50mesh	-0.5%
(4) Specific gravity of solid	-	2.8	
(5) Specific gravity of liquor	-	1	
(6) Temperature of slurry	-	Ambient	
(7) Underflow slurry consistency	-	60 – 65 %( w/w)	

18/08/2024  
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 Addl. Suptt. (Mill)

**Selection Criteria:**

- (i) 100 gms. of sample along with details leaflet of product containing the viscosity, toxicity, shear rate, molecular weight, chain length etc. is required to evaluate the offer without which offer may be rejected.
- (ii) Sample shall reach within due date or within one week after due date of tender. Sample received after the mentioned period shall not be accepted at all & offer shall be rejected.
- (iii) Only solid powder flocculent is acceptable, Emulsion or gel etc. is not acceptable.
- (iv) Sample not performing well in lab testing will be rejected.
- (v) Offer without sample & leaflet shall be rejected.
- (vi) Settling test shall be carried out with existing plant slurry for determination of rate of settling with the offered flocculent sample. Sample of flocculent giving poor rate of settling during testing shall be rejected. The settling rate of 500ml neutral slurry with 20-25% (W/W) solids & others details as mentioned earlier with a flocculent dose of (0.05% strength) 10ml shall be such that it gives a clear liquor above the graduation point of 300ml in the measuring cylinder at the end of five minutes after the slurry was mixed with flocculent & it was left in the measuring cylinder for settling. However if the settling rate is faster than the above mentioned range, the same sample shall also be qualified for consideration.
- (vii) Test report of the settling test shall be given only upon written request. The report shall carry only the result of the sample supplied by the concerned party.
- (viii) Only one sample of the party shall be considered for testing. If any party submits more than one sample then, choice of testing of a particular sample shall be under the reservation of right of UCIL.

  
18/03/2020  
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