

C.C.I.

A Chemical Corporation

CP-9900 Flocculent

Type: Emulsion, anionic

CP-9900 is a high molecular weight, highly charged anionic flocculent which works effectively as a coagulant aid or sludge conditioning agent in liquid solids separation processes.

TYPICAL PROPERTIES

-Appearance: Opaque liquid

-Specific gravity: 1.0 \pm .04

-Typical bulk viscosity

At 25 deg.C (77 deg.F): 5 00-1500 cps

-Typical Viscosity. *cps:

<u>% solution</u>	<u>25 deg.C</u>
0.5	380
1.0	720
2.0	2500

-Freezing point: 0 deg.F (-18 deg.C)

-Flash point. closed cup: >200 deg.F (93 deg.C)

*Brookfield

ENVIRONMENTAL PROPERTIES

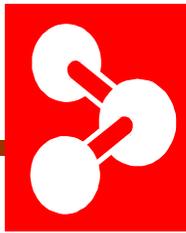
BOD 5 -1100 mg/L

COD -5000 mg/L

Treatment levels

-Flocculant	0/5-5.0 mg/L
-Coagulant aid	0.10-2.5 mg/L
-Filtration aid -.	03-.03 mg/L
-Sludge conditioning agent	25-250 mg/L

-Friction reducer in turbulent flow applications 50-500 mg/L



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ADVANTAGES

Performance

- Works over a wide pH range and does not alter the system pH.
- Larger, faster-settling flocs are formed in gravity settling operations.
- Increased filtration rates and drier cakes are produced in filtration processes. Sludge's contain less ash when incinerated.
- Higher solids capture, increased clarity and greater throughput are attained in centrifugation.
- Air flotation operations produce clearer underflows and greater throughput.

Economical

- Handling costs are minimized
- Effective at low dosage levels

Convenient

- Helps maintain clean, safe dissolving tank stations
- Liquid is easy to feed accurately directly from the drum or by simple manual addition.
- Dissolves rapidly, leaving no insoluble ("fish eyes")
- Single component liquid.

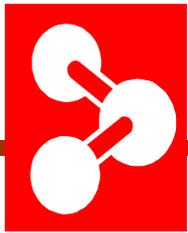
PRINCIPAL USES

CP-9900 flocculent is recommended for liquid-solids separation processes:

- Mechanical dewatering -treating alummuds and inorganic sludge's for increased throughput, solids recovery and effluent quality.
- Gravity settling -improves floc formation for faster settling rates, increased sludge compaction and improved water quality.
- Coagulant aid -settling aid with inorganic and organic coagulants as in heavy metal precipitation and phosphoric removal.
- Water clarification -improves water effluent quality by reducing suspended solids and turbidity.

Application

A stock solution of **CP-9900** flocculent should be diluted 100: 1 with clean water prior to being fed to the system and then metered to the system by use of a corrosion-resistant, positive-placement pump. Best results are obtained by dispersing the feed stream and promoting high turbulence for rapid mixing beyond the addition point.



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Preparation of Stock Solution

As a precautionary step, agitate CP 9900 flocculent thoroughly in the drum with either a drum stirrer or a continuous re-circulating pump to insure uniformity.

In order to have a continuous supply of flocculants solution, both a make-up tank and a holding or feed tank is recommended. The size of these tanks will depend upon the amount of polymer to be used, the desired feed concentration and the number of preparations per day that are convenient. Solutions of up to 3 % concentration may be prepared using make-up water below 120 deg.F (50 deg.C).