

# NUMATIK ENGINEERS PVT. LTD.

ENGINEERS & CONSULTANT

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## FLOCSURE-1164

### Anionic Polyelectrolyte

FLOCSURE-1164 is a high molecular weight anionic Polyelectrolyte coagulant cum flocculant which works Effectively as a flocculation aid or sludge conditioning agent in numerous solid-liquid separation processes.

#### Advantages:

Economical to use- Effective at very low dosage levels, resulting in reduced handling and storage cost.

Works over a wide pH range and does not alter pH in the system.

Larger, faster-settling flocs are formed in gravity settling operations.

Increased filtration rates and drier cakes are produced in filtration process. Sludges contain less ash when incinerated

Higher solids capture, increased clarity, and greater throughput are attained in centrifugation.

Air flotation operation produces clearer underflows and greater throughput.

#### Principal uses:

Industrial Waste Treating.

Clarification of waste water or dewatering sludges from:

Metal finishing

Pulp and paper manufacturer

Brewing

Leather tanning

Soap and detergent manufacturer

Glass and ceramic production

Synthetic rubber production

Meat packing

Oil refining

Textile processing

Chemical processing

Aluminum, Steel processors

Paint manufacturer

Clarification industrial raw water, often in conjunction with inorganic such as alum.

Municipal Waste Treatment

Raw sewage settling.

Clarification of primary and secondary effluents.

Alum sludge dewatering.

Polishing and phosphate removal process in tertiary treatment.

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## Application:

FLOCSURE-1164 should be dissolved in fresh water under low agitation to make 0.01% to 0.05% solution. Complete dissolution takes about 45 to 60 minutes, but will be faster in warm water. However avoid temperature above 50°C. Stock solution is stable for at least 3 to 4 days. Avoid turbulent mixing condition in the process stream after the dilute solution of FLOCSURE-1164 has been added.

## Treatment Levels:

For use as:

Flocculant	0.2 ~ 2.0 ppm
Coagulant aid	0.05 ~ 1.0 ppm
Filtration aid	0.01 ~ 1.0 ppm
Sludge dewatering	0.05 ~ 0.2 % Dry solid

## Typical properties:

Chemical composition	Co Polymer of acrylamide
Appearance	White Granule
Ionicity	Anionic
Bulk Density ( gr / ml )	0.75 ~ 0.8
pH of solution ( 25°C ) 0.1%	6.5 ~ 7.5
Viscosity ( cps* at 25°C )	

Solution %	
0.2	150
0.4	290
0.6	620
1.0	1700

\* Brookfield

## Handling:

Spilled polymer is very slippery. Spills should be scooped and or wiped prior to flushing with water. Being highly hygroscopic avoid from exposure to air.

Note: The information presented here is based on best of our present knowledge. However should not be considered as guarantee of any specific property or product as a whole