

Water Technologies & Solutions fact sheet

BetzDearborn* CP1157

- Increases Efficiency of Sludge Dewatering Operations
- Improved Effluent Quality
- Cost Effective

description and use

BetzDearborn* CP1157 is a high molecular weight, high charge density, cationic polymer. This polymer performs excellently as a sludge conditioning agent or flocculant. It is designed to function in a total SUEZ treatment programme improving surface or wastewater quality.

typical applications

BetzDearborn CP1157 is very effective in sludge dewatering operations. Benefits such as higher solids capture, drier cake and cleaner effluent are seen in paper industry and other types of industrial sludges.

Floc carryover is reduced in both waste and influent clarification/thickening systems where BetzDearborn CP1157 is applied. A large, fast settling agglomerate forms to produce a clean effluent. Performance in secondary clarification/ thickening systems demonstrates the excellent flocculating characteristics of this polymer.

The application of BetzDearborn CP1157 to coke plant pipeline charging systems improves solids removal from charging liquor and increases the capacity of settling equipment.

When used as part of a SUEZ Rec-Oil* treatment programme, BetzDearborn CP1157 improves oil, water

and suspended solids separation in refinery, automotive and steel mill oily wastewater treatment.

Any operation requiring a fast settling agglomerate, or a well flocculated sludge will benefit from the use of BetzDearborn CP1157.

treatment and feeding requirements

BetzDearborn CP1157 may be prepared in batch fashion by slowly adding the powder to the vortex of an agitated tank, using a dry feeder or an eductor. Do not add water to dry polymer. Maximum practical solution concentration is 0.5% by weight. Air or low speed (400 rpm) mechanical agitation should continue until complete dissolution is accomplished in one to two hours.

Avoid degrading the polymer with water temperature in excess of 37°C and high shear agitation once the BetzDearborn CP1157 has been made down. It is recommended that dilute solutions be used within 24 hours for maximum activity.

Further dilution of the stock solution to approximately 0.05% by weight, or 10 to 1, enhances polymer performance in most applications. For dewatering applications dilution to approximately 0.25% often gives optimum performance.

Proper treatment levels for BetzDearborn CP1157 depend on many factors such as severity of the problem and conditions particular to a given installation. The product is to be used in accordance

with control procedures SUEZ establishes for a specific application.

packaging information

BetzDearborn CP1157 is available in a wide variety of customised containers and delivery methods. For more information please contact your SUEZ representative.

safety precautions

A Material Safety Data Sheet containing detailed information about this product is available on request.

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