Product Bulletin
Product Name: Aquapure Oil Split
Product Code: 2601118
Revision Date: February 8, 2024

Aquapure™ Oil Split

Aquapure Oil Split is a liquid cationic polymer that is employed as an oil-in-water emulsion breaker in waste streams containing cutting oils, lubricating oils, coolants, grinding fluids, and tramp oils from industrial machining plants, such as car plants and metal working shops.

Aquapure Oil Split is effective in breaking emulsions containing oil concentrations of 1,000 to 50,000 ppm (0.1 to 5.0 %). While Aquapure Oil Split is effective over a wide pH range, best results usually occur at pH 8.0 to 9.0.

Aquapure Oil Split breaks oil-in-water emulsions by neutralizing repulsive charges between particles. Thus, it is important to use an adequate amount of the emulsion breaker without overtreating, since too much emulsion breaker may re-emulsify the oil.

The Aquapure Oil Split should be added at a point where good mixing assures uniform distribution in the wastewater. After the addition of Aquapure Oil Split, coagulation with Aquapure Coagulants such as Aquapure FA or Aquapure RT Plus are typically added at treatment levels of 40 to 100 ppm.

Anionic polymer flocculants such as: Aquapure FW, AN Clear and KP Liquid are often added to facilitate rapid flocculation. Subsequent treatment steps vary from batch treatment where oily sludge is collected from the bottom of treatment tanks, to air flotation treatment where oil is floated and skimmed off the surface.

Use levels for Aquapure Oil Split range from 50 to 1,000 ppm in most oil emulsions. However, the presence of emulsifiers, such as surfactants in the waste, necessitates higher treatment levels.

Features & Benefits

Oil-in-water de emulsifier	Can be used in DAF systems or a batch treatment from the bottom
Effective over a wide pH and temperature range	Versatile conditions for easy separation
Breaks emulsions of oil up to 50,000 ppm w/pH 8.0 – 9.0	Dosing ranges from 50 – 1000 ppm

Physical Data

Specific gravity	1.03
Color	Straw yellow
Clarity	Clear
Wt/Gal	8.56 lb/Gal

Operating Conditions

To determine the approximate treatment level necessary for proper emulsion breaking, the following jar test procedure may be used:

1. Fill test beakers with 500 mL of oily wastewater.
2. Mix at 100 rpm, using a gang stirrer.
3. Add Aquapure Oil Split to the beakers in varying concentrations (test solution is made by diluting the polymer to 10.0 % of product as received.
4. Mix at 100 rpm for 4 minutes.
5. If an aluminum coagulant is to be used, add the desired concentration to each beaker.
6. Mix at 100 rpm for 3 minutes.
7. If an anionic polymer is to be used, add the desired concentration to each beaker.
8. Mix at 20 to 50 rpm for 3 minutes.
9. Shut off mixer and allow flow to separate for 5 minutes.

Select the lowest dosage of emulsion breaker giving clear water.

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For more information on this process,
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