Product Bulletin
Product Name: Aquapure T-600
Product Code: 2601065
Revision Date: December 15, 2023

AquaPure™ T-600

Aquapure T-600 is a proprietary formulation designed as a non-toxic precipitant for heavy metals from industrial process wastewaters, including metals from chelated and complexed environments. It is a powerful replacement for commonly used toxic DTC/carbamate-type products. When compared to such products, tests show that Aquapure T-600 has more precipitating activity at a lower dosage.

Features & Benefits

Liquid Product is easy to meter into system	Has higher precipitation activity compared to similar products
Inject points can vary. Works on chelated/ complexed metals	This product is controlled by ORP

Physical Data

Color	Red-orange liquid
Specific gravity	1.04 – 1.06
pH	12.00<12.50
Odor	Slight

Typical Applications

- Aquapure T-600 works on all rinses that have soluble metals.
- Aquapure T-600 is formulated for industrial applications where metals have low limits
- Aquapure T-600 should be added at pH 8 or higher, on the alkaline side
- For some applications the addition of an iron- based coagulant will give lower metals and help the coagulation and clarification.

AQUAPURE T-600 has been formulated to remove heavy metals from industrial process waters including effluents of plating baths, etching solutions, and rinses containing soluble metals. **AQUAPURE T-600** will reduce the concentration of the following metals to acceptable levels within regulatory requirements: AG, AU, CD, CO, CU, FE, HG, MN, NI, PB, and ZN

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Operating Conditions

DOSING

Bench scale jar testing will help determine the optimum dosage. Ask for our information bulletin on performing such testing. To optimize the dosage, oxidizers present in solution must be destroyed (reduced) prior to dosing with **AQUAPURE T-600.** In full-scale installations, the dosing of **AQUAPURE T-600** is most efficiently accomplished with an automatic feed control by ORP (oxidation/reduction potential). Hubbard-Hall will make dosage recommendations to apply to your application.

To determine the approximate dosage of the Aquapure T-600, use the following formula:
mls AP T-600 = (total ppm metal) X (# of gallons) X (Y)

The Y factor in the formula is determined by the atomic weight of heavy metals. In a waste stream, containing mixed metals, the average atomic weight of the metals is used to arrive at the # 0.0401.
When calculating dosages for individual metals, Y is as follows:

METAL	Y FACTOR
Lead	0.0196
Cadmium	0.0362
Zinc	0.0622
Copper	0.0641
Nickel	0.0693
Mixed Metals	0.0401

FEEDING

Adjust the solution pH to above 8.0 prior to adding **AQUAPURE T-600**. The metal precipitation reaction is almost instantaneous. For some applications, the addition of an iron coagulant such as Aquapure I-300 or Aquapure ICM) will help with coagulation and clarification operations.

Caution

As with any chemical, this product should be handled with reasonable care. See the Material Safety Data Sheet for complete handling information. Avoid contact with skin, eyes, and clothing. Do not ingest.

Hubbard-Hall is available to assist you with any wastewater treatment problems that may arise.

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Our People. Your Problem Solvers.

For more information on this process,
please call us at 203.756.5521 or email: techservice@hubbardhall.com

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