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Presentation of AQ spring pure



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AQ spring pure

- Main features of **AQ spring pure**
- Principle of **AQ spring pure**
- Use **AQ spring pure**

for treatment of murky water

- Purifier
- Special-purpose water





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Main features of AQ spring pure

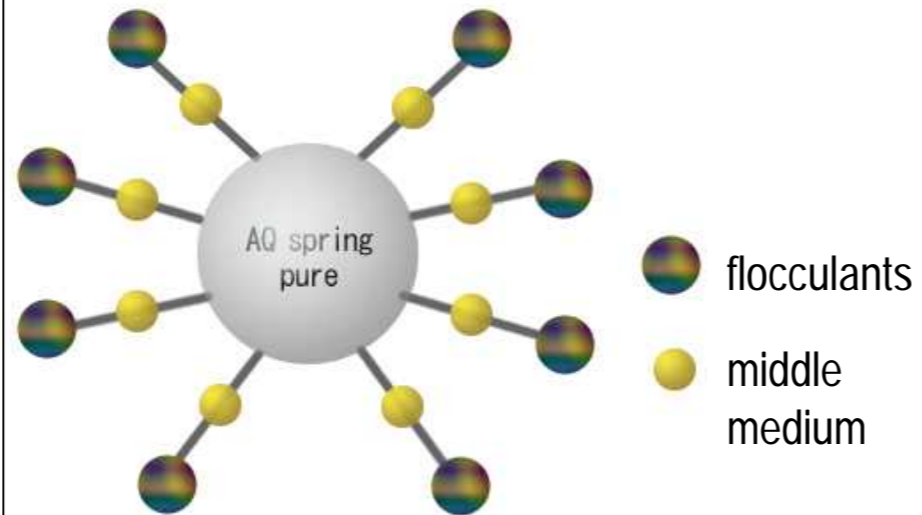
- Need to add only a small amount and stir
- Made of inorganic additives
- No harm to human body, animals, plants, and etc
- Use **AQ spring pure Step** to make water safely drinkable
- As **AQ spring pure Step** is a neutral substance, it can be used safely by everyone



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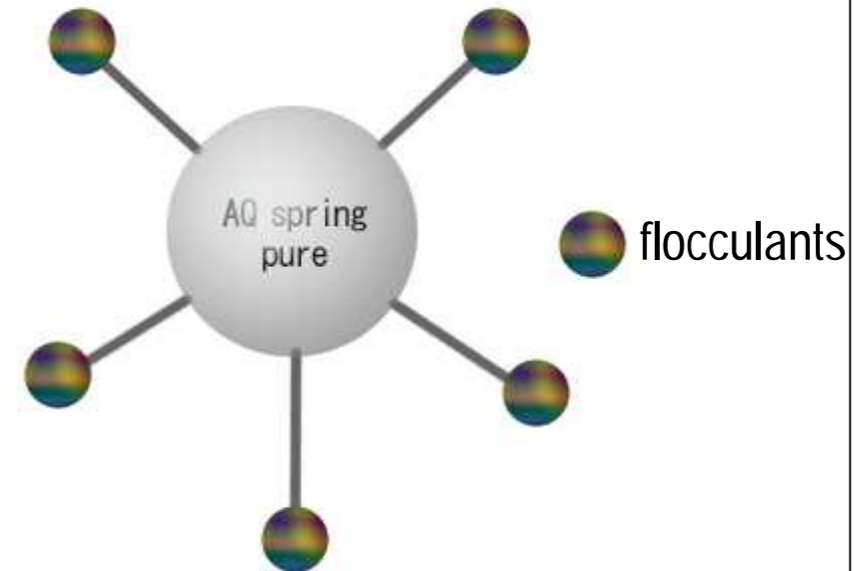
Principle of AQ spring pure

AQ spring pure



Existing coagulants

(PAC, aluminum sulfate, etc.)

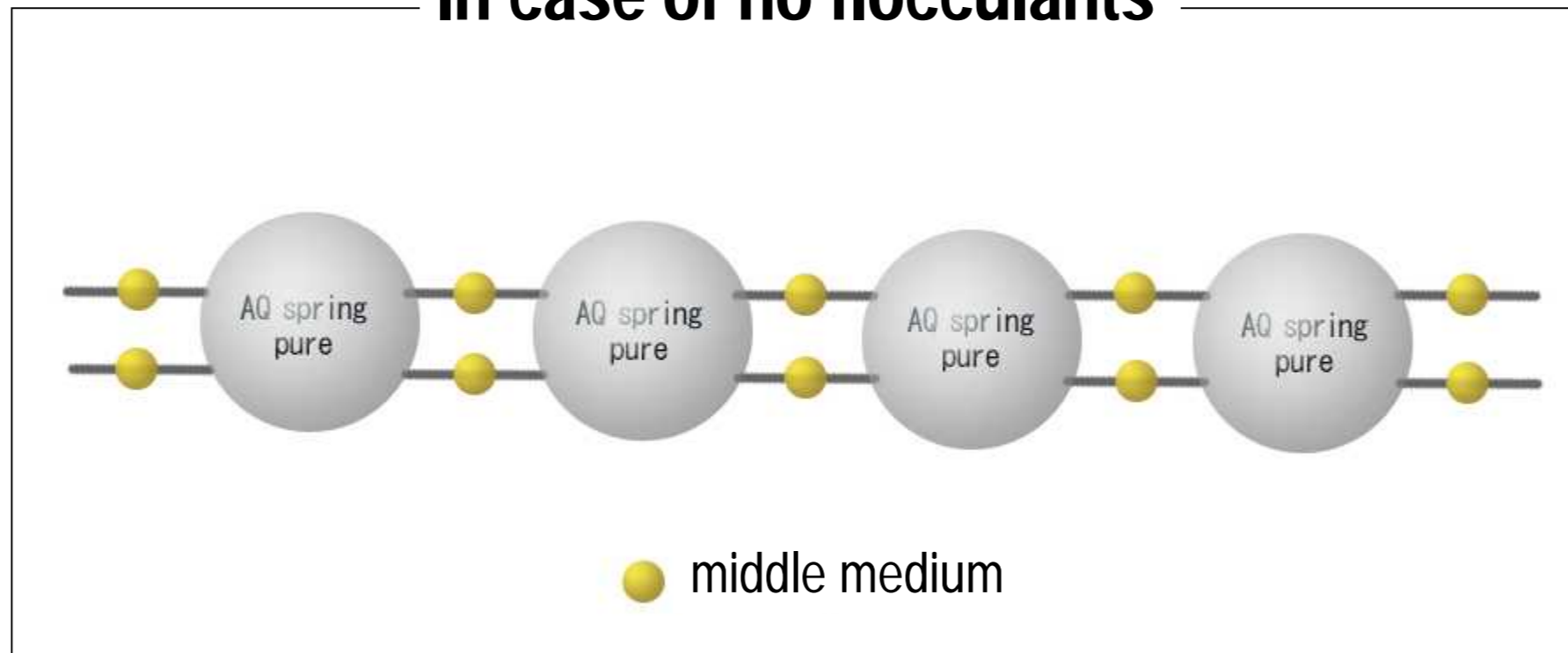




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Principle of AQ spring pure

In case of no flocculants





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Method of using AQ spring pure Step

Treatment of murky water

- Add one pack (4g) of **AQ spring pure Step** for 100 liters of murky water.
- Stir for 1 ~ 3 minutes
- Keep for 10 ~ 15 minutes





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Example of using AQ spring pure

Murky water (water from the regulating reservoir)

	Before treatment	After treatment	Water standard
Iron	3.4 mg /	0.05 mg /	< 0.3 mg /
Organic substances	42.4 mg /	4.1 mg /	< 10 mg /
pH value	7.9	7.8	> 5.8 - < 8.6



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Method of using AQ spring pure step

Purifier

- Add one pack (0.1g) of **AQ spring pure Step** for 100 liters of water
- Stir
- Keep for 20 ~ 30 minutes



- * Use within 24 hours after adding **AQ spring pure Step**
- * Boil once when using after more than 24 hours



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Example of using AQ spring pure step

Purifier

	Before treatment	After treatment	Water standard
Viable bacteria	560colonies/ml	0 colonies/ml	< 100 colonies/ml
Coliform bacteria	Positive	Negative	Can not be detected



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Special-purpose water

- Industry wastewater
- Murky water used for engineering works
- Water with high contents of heavy metals such as arsenic, Lead
- Greasy water
- Wastewater from pig farming, stock farming



etc.



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Special-purpose water

Constituents of the particular water are examined and analyzed, and **special - purpose coagulant** is applied for its treatment.

Example of the treatment

- pretreatment method (aeration, oxidization / reduction, etc.)
- controlling the composition of **special - purpose coagulant**
etc.

* Research and examination fees are charged separately.



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Method of using industrial coagulant

Special - purpose water (Palm oil effluent)

- Dilute to three times
- Carry out 24 hours aeration (air blow)
- Dilute to three times
- Adjust to pH2 ~ 3 by using PAC
- Adjust to pH7 by using caustic soda
- Add industrial coagulant and stir
- Inject polyacrylamide
- Keep for 10 ~ 15 minutes
- Carry out the division of precipitated mud
- Add powdered active charcoal and stir
- Inject oxygenated water and stir for 10 minutes
- Add industrial coagulant and stir
- Carry out the division of floating mud



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Example of using special - purpose coagulant

Special - purpose water (Well water from Bangladesh containing arsenic)

	Before treatment	After treatment	pH value
Well water	0.012 mg /	Below measurable limits	7.7 7.7
Well water	0.038 mg /	Below measurable limits	7.8 7.5
Well water	0.073 mg /	0.013 mg /	7.8 7.9

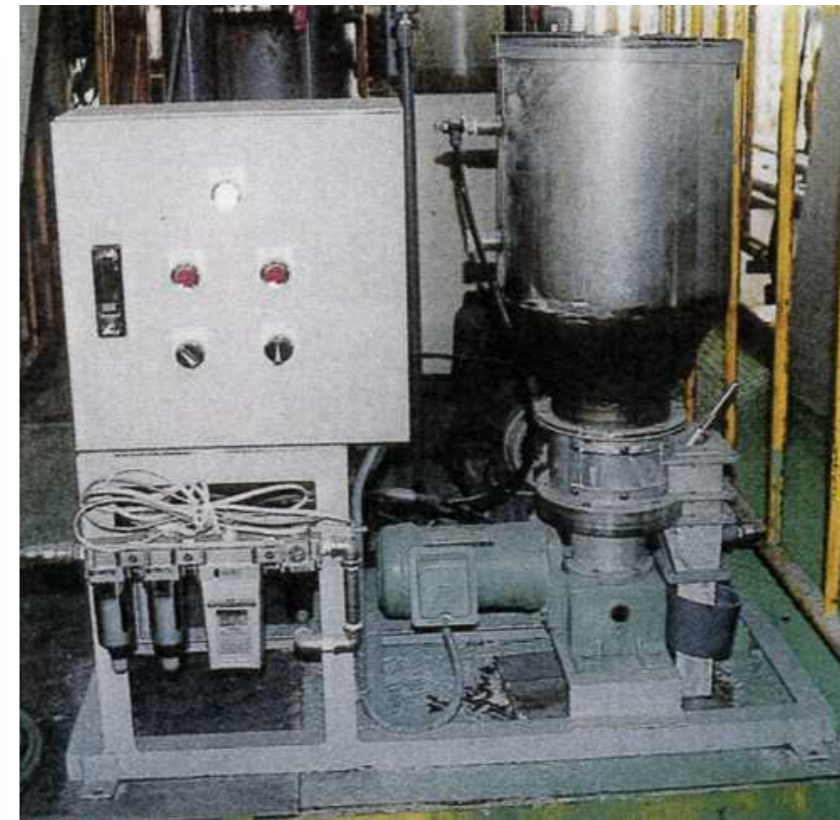
* water standard value : less than 0.01 mg /



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Aqua clean S transfer plant type



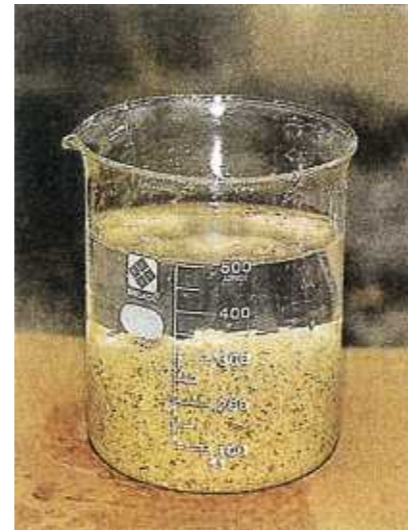
Aqua clean S installation plant type



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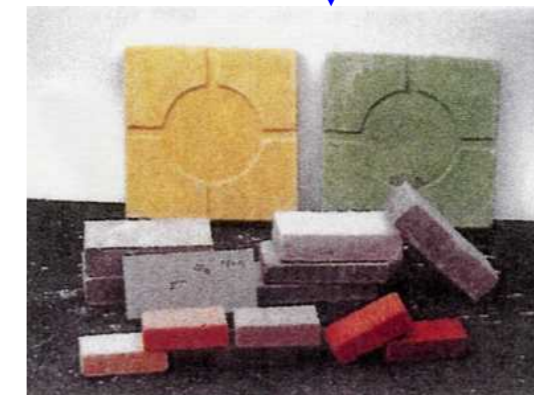
Murky water



Supernatant water and soil grains separated
Moisture content before draining ··· 62.8%



Soil grains pressure-dehydrated
Moisture content after dehydration ··· 33.6%



Commoditization by mud recycling