PAY-OFF®

Boiler Water Treatment (BWT)

Difficulties encountered during the operation of a boiler are :

1. Scale formation causing local overheating and inefficient use of fuel
2. Corrosion
   a. In the boiler due to dissolved oxygen, too low a pH of the boiler content and oxygen formed when too much NaOH is present
   b. In the steam pipes, due to dissolved carbon dioxide
3. Sludge formation, which are not suspend and thus remain at the bottom of the boiler.

Features of Pay-Off Boiler Water treatment

- It Converts scale into slurry which minimizes the scale formation
- A polyelectrolyte suspends any insoluble impurities in the bulk of the boiler. Suspended solids will settle in the boiler and blow down
- An anti-corrosion agent forms a protective film on the metal surface preventing further corrosion
- An organic scavenger removes dissolved oxygen and the oxygen formed when too much NaOH is used to maintain a high pH.
  Unlike sulfite oxygen scavengers, this organic scavenger does not form insoluble salts. Instead, the scavenger is oxidized to volatiles by oxygen which are relatively difficult to remove once they form a scale on the pipes.
- A carbon dioxide scavenger prevents corrosion in steam pipes.
- An anti-foaming agent eliminates foaming caused by the contamination of oil for example.

Physical properties :

Appearance	brown liquid
Density (30° C)	± 1095 kg/l
pH (1% ppm)	± 7.66
Non Flammable	

How to use

Pay-Off Boiler Water Treatment is very easy to use.

- Initial dose : 1 litre Pay-Off Boiler Water Treatment for each 50 m³ Boiler water capacity
- Daily dose : 0.20 litre Pay-Off Boiler Water Treatment for each 10 m³ of standard make up water

Attention :

- It is very important to maintain boiler water pH in the range of 10.5-11.5
- Be sure to have a sufficient blowdown which removes the sludge and the suspended matter in your boiler.
- To minimize pitting of the boiler pipes caused by oxygen formed when too much NaOH is present at high pH, a Pay-Off Buffer Soft can be use.

First aid and nature of hazard :

- Eye contact : Flush eyes with large amount of water
- Skin contact : Flush with large amount of water

Standard Packaging :

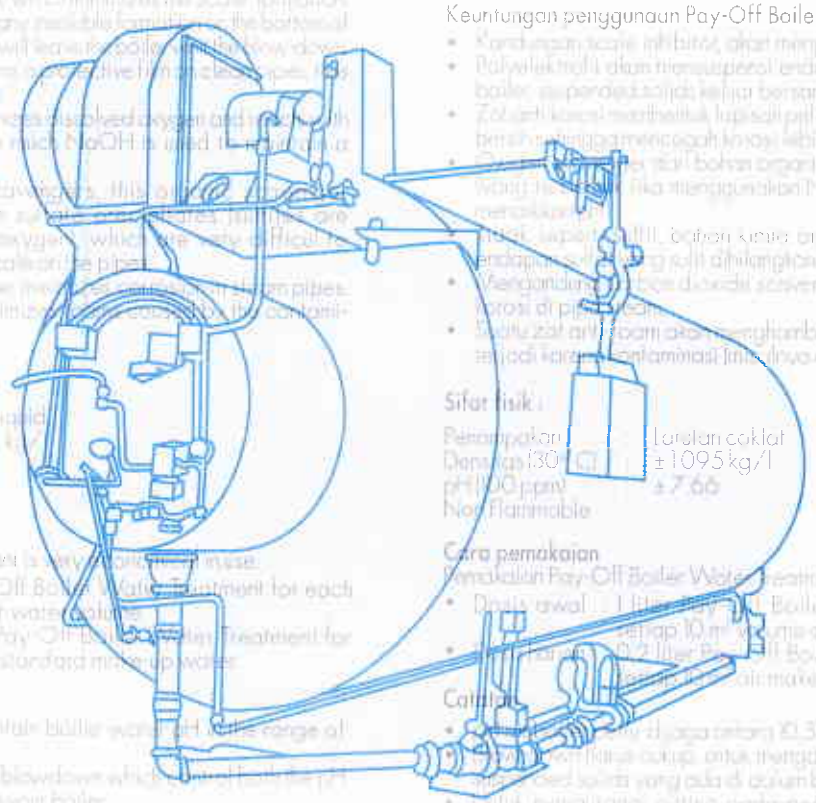
30 liters plastic pail

Kesulitan yang biasa terjadi dalam mengoperasikan boiler adalah :

1. Kerak, menyebabkan local overheating dan pemakaian bahan bakar menjadi tidak efisien
2. Korosi
   a. Dalam boiler, disebabkan oleh oksigen terlarut, pH terlalu rendah, dan oksigen yang terbentuk karena terlalu banyak NaOH dalam air boiler
   b. Pada pipa steam, disebabkan oleh karbon dioksida yang terlarut
3. Sludge, karena terbentuk berupa suspensi sehingga akan mengendap di dasar boiler

Keuntungan penggunaan Pay-Off Boiler Water Treatment

- Mengkonversikan scale menjadi lumpur, akan mengurangi pembentukan kerak
- Polyelektrolyte akan mensuspensi endapan yang terjadi di dalam boiler, yang akan terbuang bersama dengan blow down
- Zat anti korosi membentuk lapisan film yang pada pipa-pipa yang berfungsi mencegah korosi lebih lanjut
- Oxygen scavenger akan menyerap oksigen terlarut yang terbentuk jika menggunakan NaOH terlalu banyak untuk mencegah korosi
- Karbon dioksida scavenger yang akan mengurangi korosi di pipa steam
- Suatu zat anti foam akan menghambat pembentukan foam yang terjadi karena kontaminasi lemak dan minyak



Sifat fisik :

Penampakan	Larutan coklat
Density (30 °C)	± 1095 kg/l
pH (1% ppm)	± 7.66
Non Flammable	

Cara pemakaian

Pemakaian Pay-Off Boiler Water Treatment sangat sederhana.

- Dosis awal : 1 liter Pay-Off Boiler Water Treatment untuk setiap 50 m³ kapasitas air boiler.
- Dosis harian : 0.2 liter Pay-Off Boiler Water Treatment untuk setiap 10 m³ air make up standard.

Catatan :

- Untuk mengurangi pitting pada pemipaan pipa boiler yang disebabkan oksigen yang terbentuk akibat penambahan NaOH pada pH yang tinggi, dapat digunakan Pay-Off Buffer Soft.

Pertolongan pertama :

- Mata : Siram dengan air sebanyak-banyaknya
- Kulit : Siram dengan air sebanyak banyaknya

Kemasan Standard :

Pail plastik 30 liter

PT. PUJI LESTARI PURNAMA

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