

biofilms -

what you need to know

biofilms are all around you:

from **helpful microbes**
that **populate our intestines**
to **grime on bathroom tiles**

a **biofilm is...** a collection of **surface-attached microorganisms** that are **held together** and **protected** by **sticky, bacterial secretion**



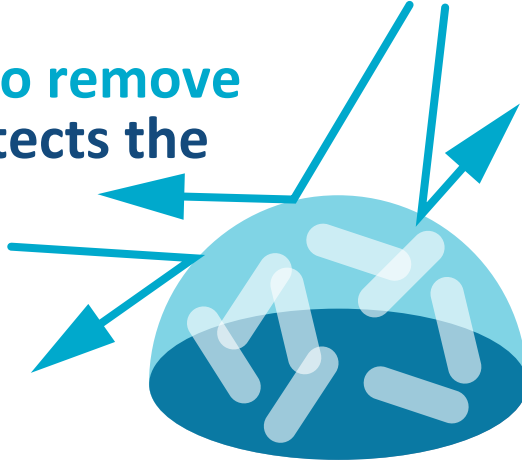
in cooling systems,
biofilm is formed
when **slime**
encapsulates
bacteria attached
to surfaces



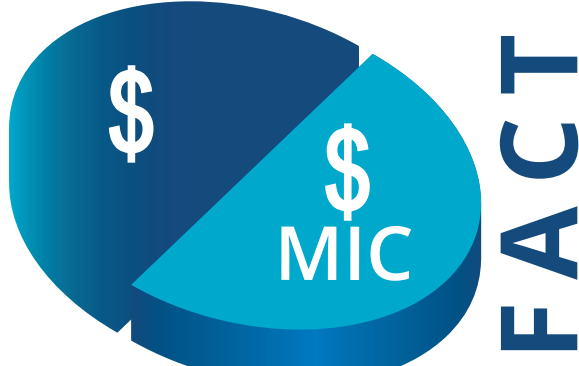
...and lead to:

- **equipment damage due to corrosion**
- **insulating deposits increasing energy costs**
- **amplification of pathogens**

biofilms are difficult to remove
the layer of **slime** **protects the**
multiplying and
adapting bacteria
from being killed
by biocides



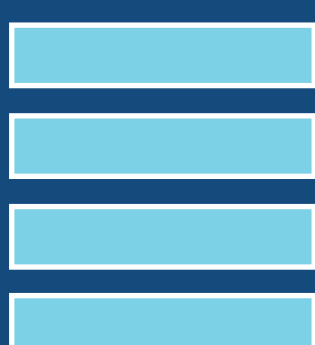
microbiological
corrosion
accounts for
up to 50%
of corrosion costs



microbiological induced
corrosion is
up to 1,000 times
more aggressive
than normal corrosion

x 1000

FACT



biofilm is **4x** more insulating
than an equivalent coating of
scale or iron oxide build up

pathogens like **Legionella...**



Hide in
biofilm

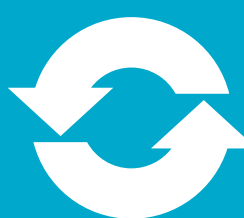


then
amplify



and
disperse

the fight against biofilm is
a continuous battle



Chem-Aqua's new patented
product, bioeXile® is up to
1,000 times more efficient
in tackling biofilms than
biocide alone and
100 times more efficient than
traditional biodispersants plus
biocide

About Chem-Aqua

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