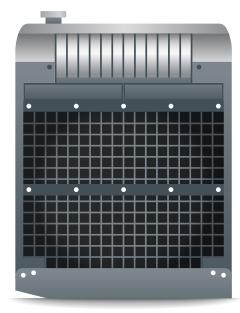
# IS YOUR COOLANT HELPING OR HURTING?

# Why aluminum coolant systems and nitrited coolants don't mix









#### The problem?

Coolant technology hasn't kept pace with modern manufacturing. And it could be keeping coolant systems from doing their job.

## Inside the CAB process

Aluminum radiators and engine coolant systems are lighter and less expensive than the old copper versions. But as with any new standard, new challenges can be presented.

In the CAB process, the aluminum to be joined is



The aluminum outside the radiator becomes

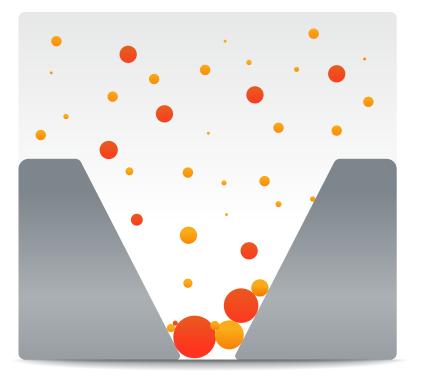
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The inside aluminum treated with flux

treated with a chemical cleaning agent (flux) to prepare it for brazing oxidized (passivated) by the air, giving it a natural protective coating remains un-passivated and unprotected

### Nitrites pose a problem

Coolants, especially those with nitrites, tend to react with un-passivated aluminum, causing two things to happen:



Precipitants form that clog small orifices in the coolant system

by imbalance



The coolant's pH balance gets thrown off, causing it to break down

## What this means for machinery

This adverse reaction between un-passivated aluminum and nitrited coolants can lead to costly machinery and business-related challenges.



Increased operating costs

Unplanned downtime

**Repair costs** 

Enginefailure

#### Get protection with purpose

Introducing Delo ELC Advanced. Next-gen coolant built for modern aluminum coolant systems.

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