



CONNECTOR LUBRICANTS

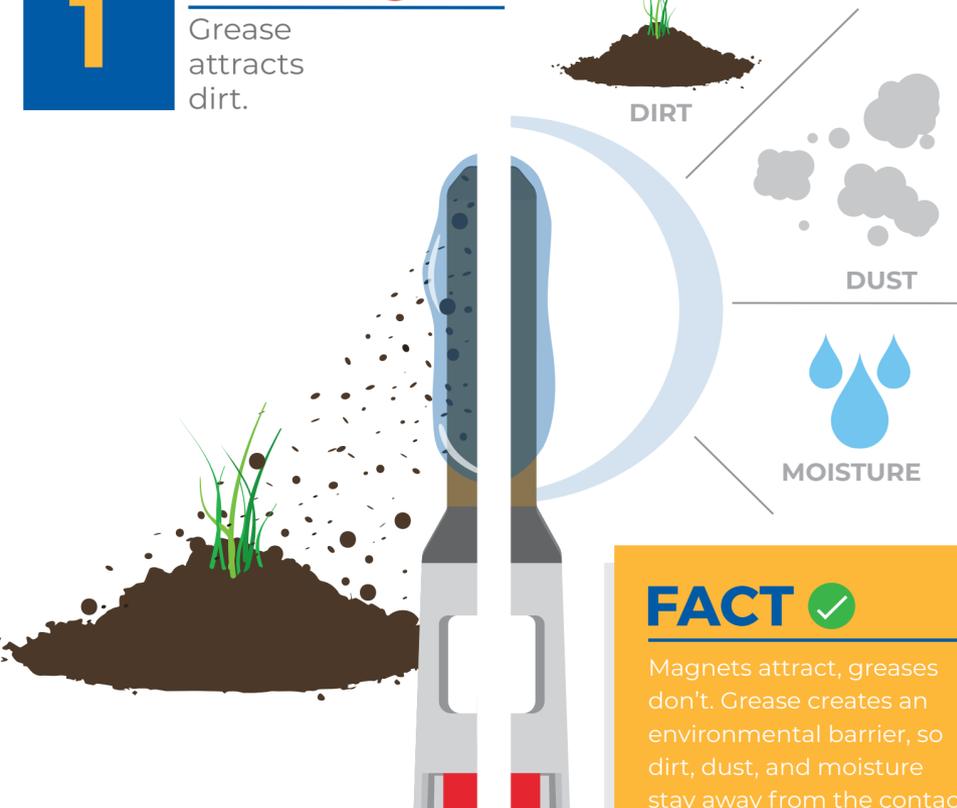
6 MYTHS & FACTS

Wondering if you need grease for electrical contacts and connectors? Here are some myths and facts to help you make your design decision.

1

MYTH

Grease attracts dirt.



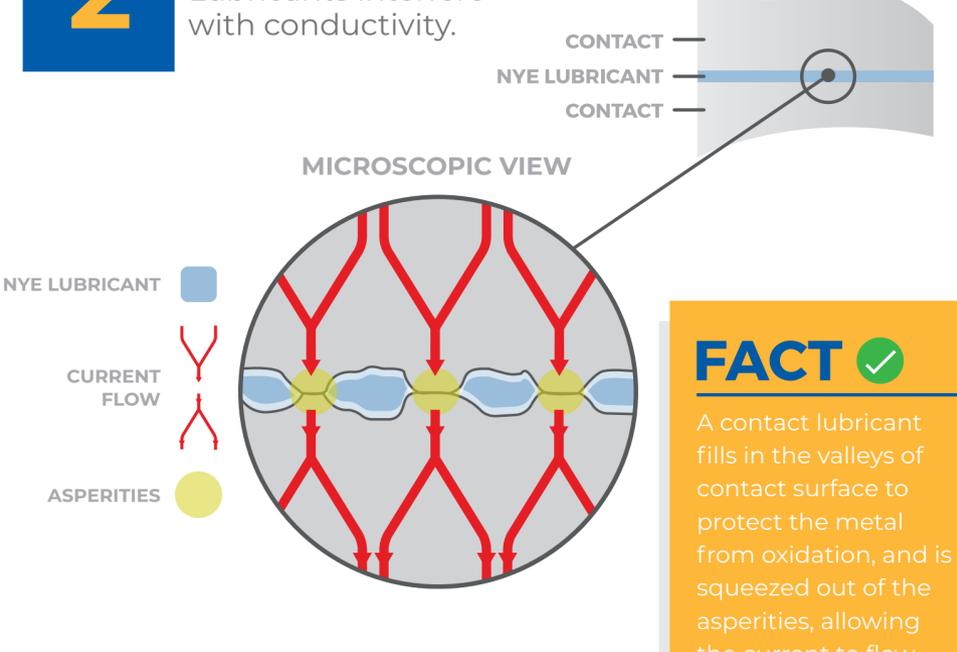
FACT

Magnets attract, greases don't. Grease creates an environmental barrier, so dirt, dust, and moisture stay away from the contact surface.

2

MYTH

Lubricants interfere with conductivity.



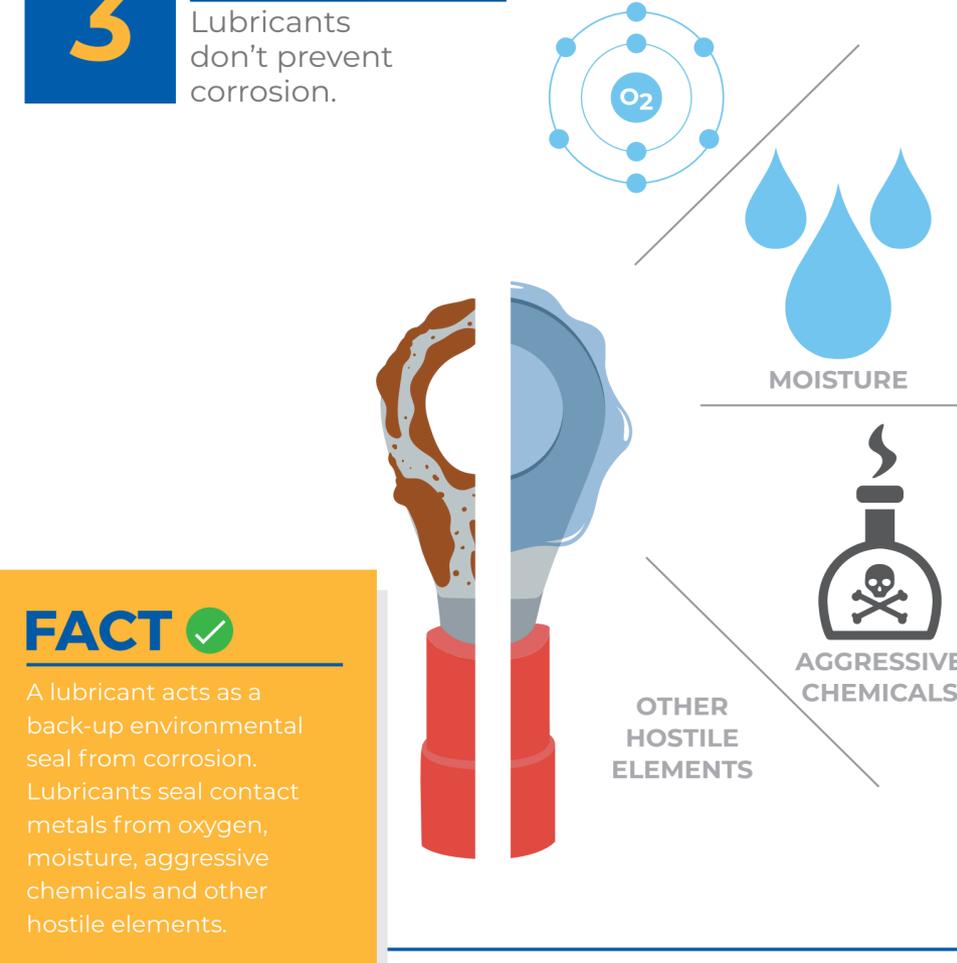
FACT

A contact lubricant fills in the valleys of contact surface to protect the metal from oxidation, and is squeezed out of the asperities, allowing the current to flow.

3

MYTH

Lubricants don't prevent corrosion.



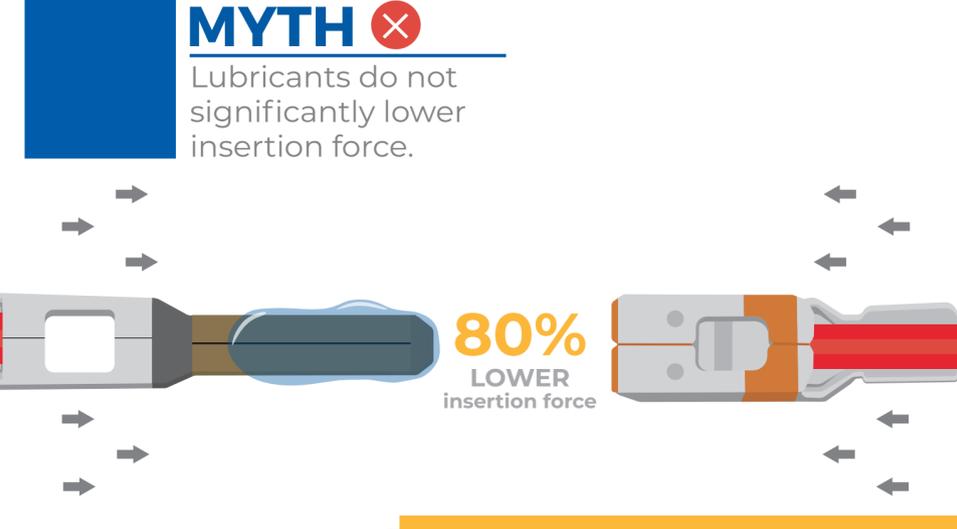
FACT

A lubricant acts as a back-up environmental seal from corrosion. Lubricants seal contact metals from oxygen, moisture, aggressive chemicals and other hostile elements.

4

MYTH

Lubricants do not significantly lower insertion force.



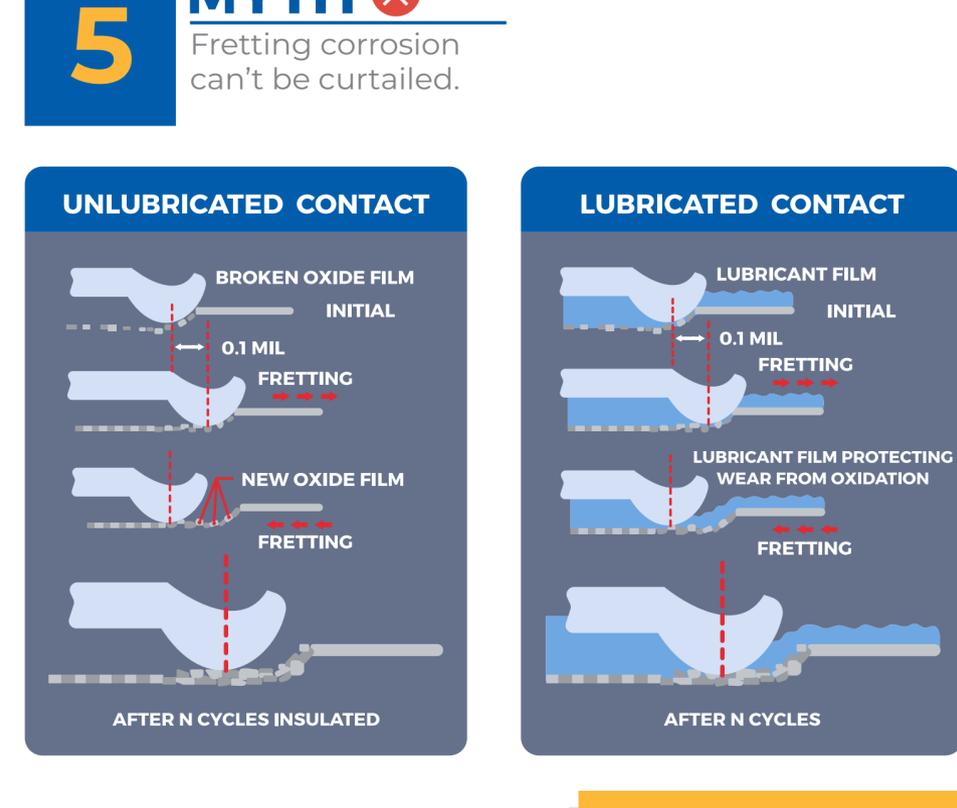
FACT

A thin film of Nye lubricant reduces mating force by as much as 80%. Low insertion forces on multi-pin connectors will ensure solid connections.

5

MYTH

Fretting corrosion can't be curtailed.



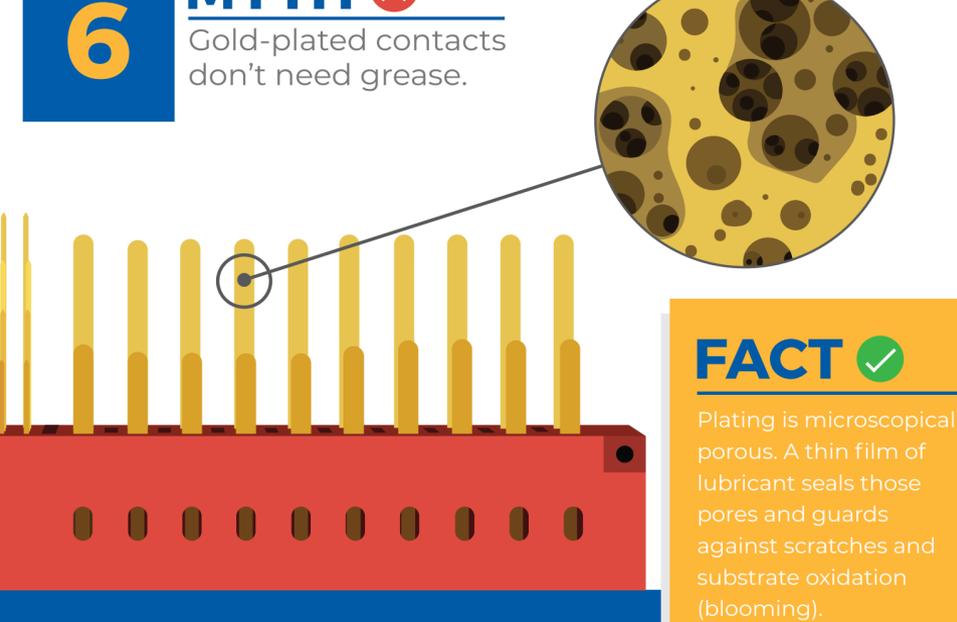
FACT

A lubricant minimizes contact wear and protects the contact surface from oxidation corrosion during fretting.

6

MYTH

Gold-plated contacts don't need grease.



FACT

Plating is microscopically porous. A thin film of lubricant seals those pores and guards against scratches and substrate oxidation (blooming).



Learn more at NyeLubricants.com