

DOW CORNING

Oil & Gas
Solutions

Specialty Lubrication and Sealant Solutions for the Oil & Gas Industry

**Explore. Discover.
Meet your challenges.**



Tough challenges need effective solutions. Nothing comes easy in oil and gas – onshore or offshore, upstream or downstream. Tough challenges come with the territory. Extreme conditions create critical issues at every stage, from exploration and extraction to transport, storage and processing. You strive for increased equipment reliability and added service life. You demand operational and environmental safety. And you work to eliminate downtime, reduce maintenance and prevent losses. These tough challenges must be met with effective solutions. Every day. Everywhere. Let us help.

Effective Solutions for Extreme Conditions

Work with a global solutions provider. Discover Dow Corning's innovation, expertise, service and support. We have high-performance solutions for your extreme-condition applications:

- Anti-seize pastes for threaded connections
- Flexible sealants for joints and flanges
- Greases, compounds, anti-friction coatings and anti-seize pastes for valves and gates
- Drill collar and tool joint greases
- Pump and compressor lubricants and sealants
- Anti-friction coatings for heavy loads
- Heat- and solvent-resistant sealants
- Water-resistant greases and sealants that can be used for desalination units



Explore Dow Corning solutions. On salty platforms and in dusty oilfields, at safety-critical terminals and along high-pressure pipelines – from engineering and operations to maintenance and processing – we have effective solutions. Look at our specialized products. Put our technical experts on your team. Rely on our global commercial network to help. Explore. Discover. And let's work together to get your tough jobs done right with our high-performance *Molykote*[®] brand specialty lubricants and *Dow Corning*[®] brand silicone sealants.



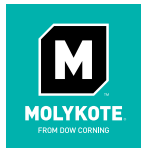
For sealing joints and flanges, Dow Corning[®] silicone sealants can provide bonding that remains flexible in heat and cold, and withstands long-term weather exposure.



On threaded connections, Molykote[®] anti-seize pastes from Dow Corning can help achieve proper tightening torque and aid in easy assembly and disassembly.

Explore specialty lubrication solutions. A full range of *Molykote* specialty lubricants for challenging oil and gas applications is available from Dow Corning. These advanced formulations include high-performance solid lubricants, silicones, and mineral and synthetic oils. They are known as *Smart Lubrication™* solutions. They can help control friction and wear, reduce fretting corrosion and galling, extend lubrication intervals, and improve reliability. Talk to us. We can collaborate with your team to discover ways to meet your exact application needs and performance specifications.

Meet your extreme-condition challenges with our high-performance technologies.



Get solutions for extreme conditions. *Molykote®* brand *Smart Lubrication™* solutions from Dow Corning are designed for heavy loads and temperature extremes. They withstand vibrations, shock loads and corrosive chemicals. Each type or family of solutions has specific strengths:

- **Severe-duty greases** blend solid lubricants and additives for heavy load lubrication, reliable equipment operation and reduced maintenance needs.
- **Anti-seize pastes** provide a uniform coefficient of friction under heavy loads and extreme temperatures, and aid assembly/disassembly of threaded connections.
- **Anti-friction coatings** provide dry-film lubrication that resists water washout, retards corrosion and delivers high load-carrying capacity.
- **Silicone oils and greases** perform across a wide temperature range under lightly loaded conditions, such as instrument lubrication applications; fluorosilicone compounds withstand exposure to fuels, solvents and chemicals.



Molykote® solid lubricants applied to splines of rotating shafts can reduce fretting corrosion, improve operating reliability and extend service life.



A Molykote® anti-seize paste with metal-free solid lubricants reduced thread failure rates on rotary drilling equipment and helped maintain production schedules.



Discover silicone sealant solutions. *Dow Corning* silicone sealants include coatings, form-in-place gasketing materials and hot-melt assembly adhesives. They are longer lasting and more versatile than most organic-polymer sealants. And these effective solutions have a proven track record of high performance under extreme conditions – in construction for structural glazing, on wind-turbine nacelles for U.V. resistance, for automotive engine and transmission seals and gaskets, and on aircraft for reliable fuel and pressure sealing.

Count on solutions that last. *Dow Corning*[®] sealant solutions can be used for sealing a wide array of oilfield equipment, tooling and fittings. They are suitable for equipment assembly, maintenance shop repairs and in-field service. They meet many challenges in oil and gas applications:

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- **Stability in high and low temperatures**, with limited stiffening or softening, keeps these seals and gaskets in place to reduce potential for leakage and loss.
- **Extreme exposure resistance** prevents degradation and loss of sealing strength under long-term exposure to sunlight, salt spray, abrasive sand and airborne contaminants.
- **Chemical stability**, especially with fluorosilicones, maintains sealing integrity when exposed to fuels, solvents and many corrosive chemicals that cause many organic sealants to fail.
- **Good bond strength** ensures long-lasting adhesion to a wide range of equipment materials, including glass, metals, masonry, painted surfaces and plastic parts.
- **Dielectric insulating properties** provide good protection against short circuits and power losses when these sealants are properly used to seal electrical circuits and devices.
- **Low flammability** helps these sealants comply with fire-safety regulations and codes.



*Solvent-resistant
Dow Corning[®]
sealants can be
used on fuel lines
and tanks, pumps
and compressors,
and pipe joints.*

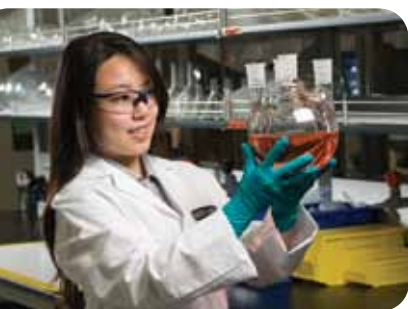


*Dow Corning[®] silicone
sealants can fill voids
and cracks and provide
excellent formed-in-place
gaskets for compressors,
gearboxes, pumps and
valves.*

Expect results that get tough jobs done right. As a global solutions provider for today's oil and gas industry, Dow Corning can help you meet tough challenges worldwide. Our high-performance specialty lubricants and silicone sealants are available wherever needed. And our effective solutions for your specific problems can be developed locally, working together, with the technical service and expertise you require.



Global. Local. And ready to help.



Our global team of technical experts and our strong commercial network can work with you to define challenges and deliver solutions that work.

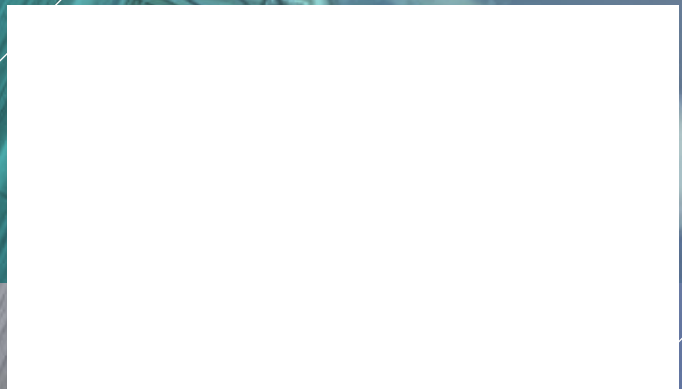
**Explore our strengths.
Tell us your needs.
And discover your answers.**

**Our solutions experts
get their job done right
so you can, too.**



Let's talk.

Tough work needs teamwork. Every problem has a solution. Add us to your problem-solving team and meet your toughest lubrication and sealing challenges with trusted Dow Corning performance.

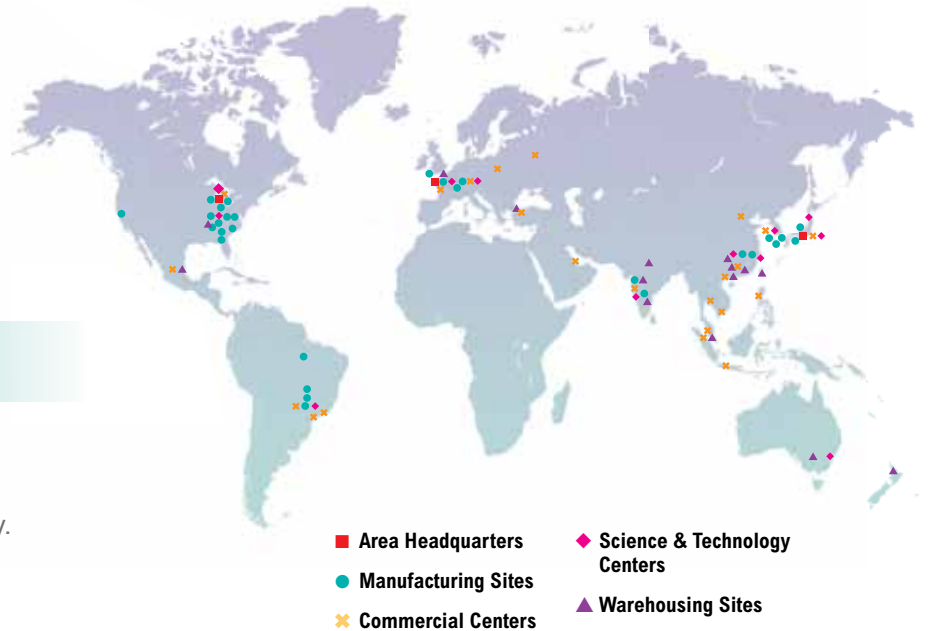


Your global connection

Dow Corning customer service and engineering centers are strategically located worldwide. And our network of technical distributors provides local support for each and every producing region. Call us. We have the right specialty lubrication and sealant solutions for today's global oil and gas industry.

Learn more

Get details about Dow Corning's innovation and expertise in – and service and support for – challenging applications in the oil and gas industry. Visit dowcorning.com/oilandgas or e-mail industrial@dowcorning.com.



Photos (from left to right, top to bottom): Page 1 – AV12256, AV12315, AV12208; Page 2 – AV12256; Page 3 – AV12254, AV12314; Page 4 – AV12202, AV12209, AV11616; Page 5 – AV15770, AV12305; Page 6 – AV12255, AV12464; Page 7 – AV12266.

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