



Since 1998

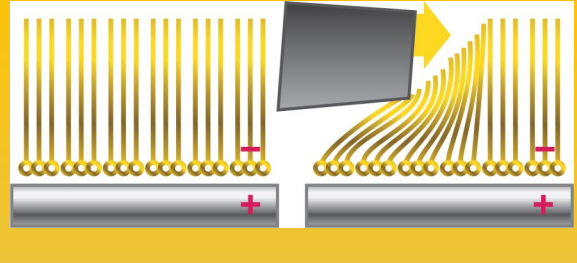
Oil Fog Health & Safety

Liquid Shield Polar rock drill oils / air tool lubricant
Powerful, economical protection for miners and equipment



What is a polar rock drill oil?

Liquid Shield polar rock drill oils are formulated with negatively charged fluids that adhere tenaciously to steel surfaces, which are positively charged. This attraction causes the lubricant to coat all components of the tool, ensuring consistent lubrication. This polar attraction also helps to minimize the tendency of oils to form oil fog caused by turbulent compressed air.



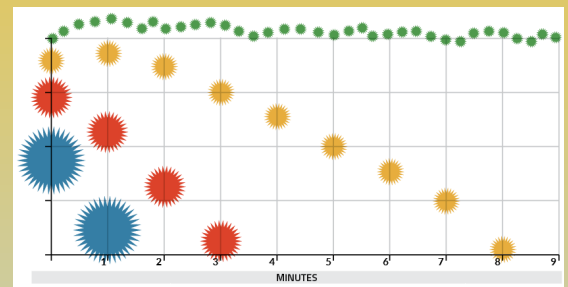
Agglomeration

Liquid Shield polar rock drill oils incorporate an additive that causes the oil particles to cling to each other and recombine when they collide in the tool. The combination of polar base fluids and this additive create a fluid that resists atomization within the tool, and forms large oil droplets when exiting the tool.



Particle size - Bigger is better

When it comes to oil particles expelled from the tool, size matters. Large particles tend to settle out rapidly, avoiding inhalation. Those particles that are inhaled tend to remain in the upper respiratory tract, posing minimal risk to personnel. Liquid Shield polar rock drill oils form large particles that tend to settle out rapidly. Some conventional rock drill oils can create oil fog that remains airborne for long periods of time, increasing exposure risks.

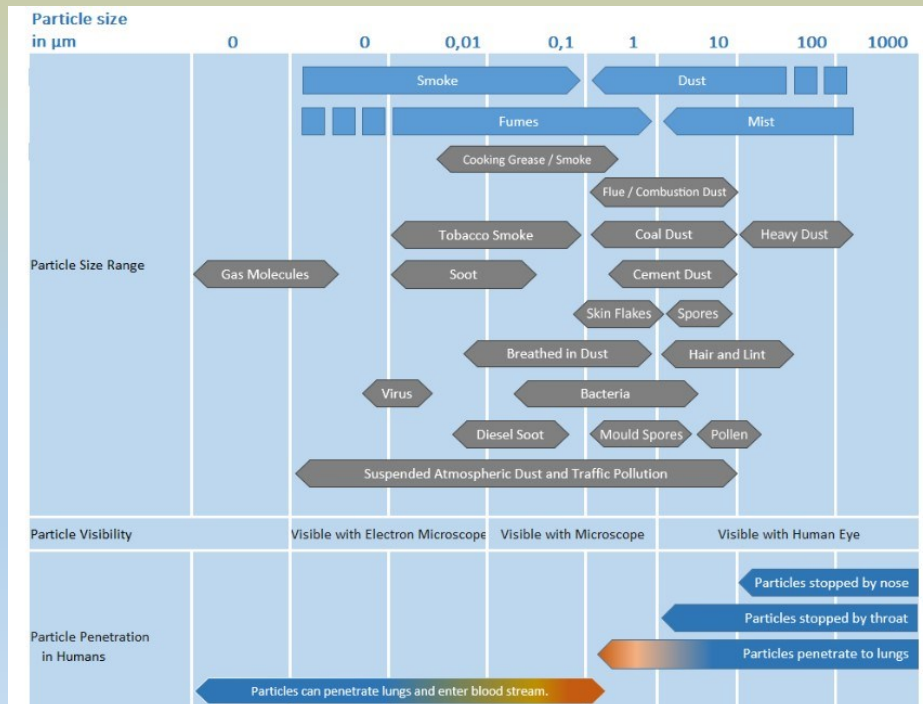


Relative particle size graph

The graph on the right illustrates relative particle sizes, with the particle penetration potential for respiration indicated at the bottom of the chart.

Of note for the mining industry are small particles like smoke, fumes, diesel soot, coal and other mineral dusts, and mists, such as oil mist, as the particle size becomes smaller.

Our **Liquid Shield polar rock drill oils provide affordable, effective protection** for miners, and are a significant way to reduce respiratory risks.



Made in Canada

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