

Other Products by Commonwealth Oil

- Coolants
- Cutting Oils
- Tube Mill Coolants
- Metalworking Fluids
- Hydraulic Oils
- Cleaners & Degreasers
- Gear Oils
- Rust & Corrosion Inhibitors
- Food Grade Registered Lubricants
- Biodegradable Solutions



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For more high quality products by Commonwealth Oil, speak with your local authorized distributor today.



Commonwealth
Oil
a **Wallover** Company

The World of EDM

NSF



ISO 9001: 2008

Commonwealth Oil's History of Dedication To Quality Products and the Operator's Safety

Commonwealth Oil Corporation has been in business **since 1978** and is a privately owned **Canadian** corporation headquartered in Harrow, Ontario.



Founder and President of Commonwealth Oil, **Fred Herdman**, is best known for his contribution to the field of EDM Fluids. Commonwealth Oil was the first company in the world to identify the hazards in which EDM operators were exposed by older fluid technology.

They were also the first company to bring forth a safe alternative dielectric fluid to the industry. This was done primarily through in-depth studies of the molecular chemistry of the fluid in the EDM application and the chronic impact on EDM machine operators health.

In the field of Electric Discharge Machining, Commonwealth Oil is the recognized leader in raising the bar for fluid performance, as well as for health & safety standards. **Commonwealth Oil is the only company in the world to have achieved NSF Registered EDM Fluids to H1 and HT1 Standards.** Besides meaning our fluids are safe, cleans and stable, these are also fluids you can trust.

Commonwealth Oil's EDM Fluids are used throughout the medical, automotive and aerospace fields, including in nuclear applications. **EDM-244 is the #1 Dielectric Fluid** in North America, being used in 40-50% of applications.

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EDM V is formulated specifically to meet the corrosion prevention requirements of wire EDM applications, as well as support extended resin bead life. This product is made entirely from United States Pharmacopeia grade ingredients. EDM V is very economical to use when mixed at the recommended 2% concentration and leaves a thin oily film behind.

- ▶ Does not interfere with deionizing resin.
- ▶ No toxic or hazardous additives.

EDM 185

Our lowest viscosity dielectric fluid, an excellent choice to use when producing very fine, intricate work, at very close tolerances that is typified by narrow gap cutting. The low viscosity helps to improve flushing debris and chips in those tight areas.

- ▶ Works with all ferrous metals, aluminum, copper, brass and bronze.

EDM Ram Cleaner

This super concentrated liquid cleaner is designed for use in Ram Type machines. It will remove grease, grit and carbonaceous materials usually resulting from oxidized EDM Fluid.

- ▶ Easily removes sludge and debris.
- ▶ Increase fluid life by properly cleaning out EDM Systems.

EDM Flushing Fluid

EDM Flushing Fluid is a light viscosity oil that is used to remove EDM Ram Cleaner from a machine that has just been cleaned. It should only be used after the machine has been thoroughly cleaned and before refilling with your preferred Commonwealth Oil EDM Fluid.

- ▶ Contains no chlorinated solvents.

Check out our other great EDM Products!



micro-fine 49

Micro-Fine 49 was specifically formulated to work with Makino HQSF Machines. The purpose of this fluid is to hold the required particulate additive in suspension while it works. This phenomenon is the exact reverse of what is expected from most dielectric fluids. Micro-Fine 49 is also characterized by a higher than normal flash point, while still maintaining a very low viscosity.

Performance Benefits

- ▶ Reduces recast layer.
- ▶ Rubber Component Compatible for your hoses, seals and gaskets.
- ▶ No potential interference from dyes.
- ▶ Extended fluid life. Will not grow old and will not extend burn times.
- ▶ Clean and ultra clear for easy visibility of work piece.

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A New Standard for Qualifying EDM Fluids

NSF International is The Public Health and Safety Company, providing public health and safety risk management solutions to companies, governments and consumers around the world. Having NSF H1 Registered Products means they are safe for incidental and accidental food contact.



Commonwealth Oil has qualified its three most popular dielectric fluids with NSF International. According to the NSF, when a fluid is categorized as H1 or HT1 (Heat Transfer 1), it is acceptable for incidental food contact applications, which are unavoidable and accidental. The Commonwealth Oil EDM Fluids that are considered safe for incidental food contact are **EDM-244**, **Eurosupreme** and **EDM Super Supreme**. For our fluids to become registered, it is required that each finished formula, and its components, are fully audited by the Toxicology and Quality Control Staff of the NSF.

All Tech Data and MSDS sheets for these products will carry the NSF logo and our registration standard. We have always been very adamant about the purity, quality and safety of our EDM Fluids and now, having our NSF H1 and HT1 Registration is proof of those qualities and our commitment to the operators.

Commonwealth Oil's full service
Research & Development Lab
keeps us ahead of the competition

EDM-244™

DI-ELECTRIC FLUID

Nuclear Approved



Nonfood Compound
Listed H1 & H11
140598

This is the most popular and most highly respected dielectric fluid in North America. This is the fluid that first made operators aware that dielectric fluids did not have to be hazardous. It is the definitive **universal dielectric fluid** used throughout the medical, automotive and aerospace world. All components used meet the Code of Federal Regulations (21-CFR) for NSF H1 Registered Food Grade Lubricants.

Performance Benefits

EDM-244 is especially formulated to deliver the following performance benefits:

- ▶ Approved for use in **nuclear facilities**.
- ▶ Reduces DC Arcing.
- ▶ High Flashpoint, reducing chance of fire.
- ▶ Longer fluid life. **Proven field performance**.
- ▶ Lower viscosity, increasing flushing at point of cut.
- ▶ **Clear**. You can easily see to the bottom of the barrel.
- ▶ Low density allows rapid settling of particles in filter.
- ▶ Low odour levels from time of fill, to after many working years.
- ▶ Aromatic and sulphur content are nearly undetectable under laboratory conditions, making them environmentally safer.
- ▶ Higher dielectric strength leads to reduced polishing time.
- ▶ **Transor Approved**.
- ▶ Approved for use in **ONA Filtration Systems**.

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EURO SUPREME™

SYNTHETIC DI-ELECTRIC FLUID

If you feel you need a high quality synthetic dielectric fluid, but require a more cost effective approach, EuroSupreme Dielectric Fluid is your answer. This product possesses all the performance criteria, as well as safety and environmental standards you have come to expect from Commonwealth Oil. This product is known for **improving skin condition** on the hands of operators.

Performance Benefits

- ▶ EDM operators find a remarkable improvement in their skin condition.
- ▶ Rapid settling of particles in the filter thanks to **lower specific gravity**.
- ▶ Extremely low evaporation and volatility!
- ▶ Approved for use in **ONA Filtration Systems**.

EDM SUPER SUPREME™

Synthetic Di-Electric Fluid



Nonfood Compounds
Listed H1 & H11
140600

This is truly a superior synthetic EDM Fluid. If you are looking for a fluid with an **extremely long life** and continuous predictability of machining times, this is the fluid for you. EDM Super Supreme Fluids are known to last, and continuously pass maintenance tests well into their 10th year of usage.

Performance Benefits

- ▶ **Longer fluid life**. This fluid does not grow old, and does not extend burn times.
- ▶ Higher flashpoint reduces potential fire hazards.
- ▶ Extremely low evaporation and volatility! Operator fumes are greatly reduced.
- ▶ **Transor Approved**.
- ▶ Approved for use in **ONA Filtration Systems**.