

## ExxonMobil, Intel® drive next-gen data center cooling with warranty-backed solution

- Intel® is offering a warranty rider for its fourth and fifth-generation Xeon® processors when they are used with ExxonMobil immersion cooling fluids.
- The thorough validation of immersion cooling fluid technology represents important progress in thermal management which is critical to ensuring stable and reliable data centers operations.

**ExxonMobil announced today that its single-phase immersion cooling fluids used to mitigate heat in data center hardware has received the designation of “Intel Supported Immersion Fluids” for use with next-generation Intel Xeon® processors.**

Under a strategic collaboration announced in April 2024, Intel® and ExxonMobil worked together to develop and test a next-generation energy-efficient, liquid-based data center cooling technology for Intel’s Xeon® processors.

The Intel® Data Center Certification enables Intel® to provide an immersion warranty rider for fourth and fifth-generation Xeon® units in the combined solution consisting of the immersion tank, fluid, and information technology (IT) equipment that was comprehensively and rigorously validated in Intel’s Advanced Datacenter Development Labs.

ExxonMobil’s data center cooling fluids will also be recognized as Warranty Supported Immersion Fluids for 4th and 5th generation Xeon® processors. Intel® will offer an immersion warranty rider for ExxonMobil fluids used in other system configurations, such as different tanks or IT equipment.

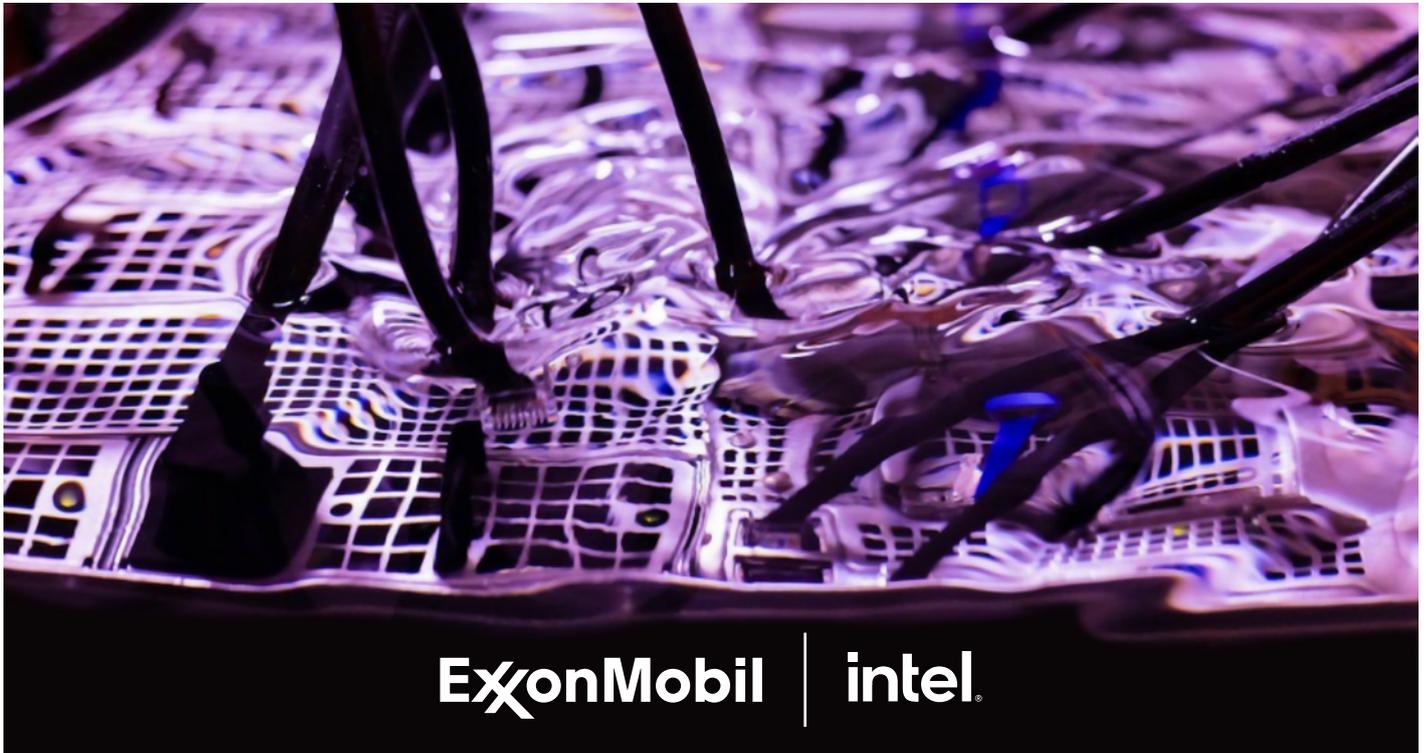
*“ We are pleased to provide Intel® Data Center Certified designation for ExxonMobil’s immersion cooling fluids after rigorous testing with our 5th Gen Intel® Xeon® Processors. This warranty-backed solution gives data center operators confidence in a proven thermal management approach for their growing computational needs, ”*

said **Rami Khouri**, Vice President, Data Center Group, Intel.

*“ This Intel Data Center Certified designation for Immersion Cooling Solution represents confidence of ExxonMobil’s immersion cooling fluids by the world’s largest chip manufacturer. This is the result from a collaborative effort to help customers improve operations and support the growing data center market, ”*

said **Ali Westwood**, Global Marketing Manager, ExxonMobil Product Solutions Company.

Rack scale immersion validation testing was conducted at Intel’s Advanced Data Center Development Lab based in Hillsboro, Oregon, in conjunction with Baltimore Aircoil Company (BAC) for the immersion tank, Hypertec for their servers natively designed for immersion, and Micron Technology for memory.



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*“Immersion cooling, we feel, is vital to the future of sustainable data center growth. BAC’s COBALT™ system with patented CorTex™ technology helps deliver the lowest PUE and the highest reliability. This new certification further reinforces our commitments to support that growth, adding an extra layer of assurance to provide data center customers with a trusted, seamless, and superior experience,”*

said **Jan Tysebaert**, General Manager for Data Centers at BAC.

*“Immersion cooling systems must be co-developed with feedback loops from diverse end-user environments including data centers, HPC, AI and edge computing to ensure solutions are thermally efficient, adaptable, and aligned with real-world deployment constraints. This collaboration will not only strengthen Hypertec’s product development, but secure our leadership in immersion far into the future,”*

said **Darcy Letemplier**, Vice President of Global Engineering at Hypertec

Thermal management is becoming increasingly critical as data centers expand and computing demands rise. Single phase immersion cooling offers a more efficient alternative to air-based methods, improving power usage, water consumption and extending hardware life. These non-conductive, low viscosity fluids are compatible with IT equipment and help manufacturers and end users meet their goals. Cooling accounts for 30-40% of data center energy use, presenting a major opportunity for efficiency gains.

US data center energy demand looks to grow by as much as 20% in the coming five years,<sup>1</sup> immersion cooling offers a pathway to reduced energy consumption and more efficient use of existing infrastructure.

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<sup>1</sup> Energy Power Research Institute white paper, “Powering Intelligence,” 2024.

## About ExxonMobil

**ExxonMobil, one of the largest publicly traded international energy and petrochemical companies, creates solutions that improve quality of life and meet society’s evolving needs.**

The corporation’s primary businesses - Upstream, Product Solutions and Low Carbon Solutions – provide products that enable modern life, including energy, chemicals, lubricants, and lower emissions technologies. ExxonMobil holds an industry-leading portfolio of resources, and is one of the largest integrated fuels, lubricants, and chemical companies in the world. ExxonMobil also owns and operates the largest CO2 pipeline network in the United States. In 2021, ExxonMobil announced Scope 1 and 2 greenhouse gas emission-reduction plans for 2030 for operated assets, compared to 2016 levels. The plans are to achieve a 20-30% reduction in corporate-wide greenhouse gas intensity; a 40-50% reduction in greenhouse gas intensity of upstream operations; a 70-80% reduction in corporate-wide methane intensity; and a 60-70% reduction in corporate-wide flaring intensity. To learn more, visit [exxonmobil.com](https://www.exxonmobil.com) and [ExxonMobil’s Advancing Climate Solutions](#).