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Certificate of Compatibility & Approval

Product	Tudertechnica hose	Compatible*
ON Direct Liquid Cooling PG 25	Turad® PTFE HPC	recommended
ON Direct Liquid Cooling PG 25	Turad® HPC/Form/flex	recommended
ON Direct Liquid Cooling PG 25	Tusilrad® HPC	recommended
Castrol ON immersion cooling fluid: DC 20	Turad® PTFE HPC	recommended
Castrol ON immersion cooling fluid: DC 20	Turad® Oil HPC/form/Flex	recommended
Castrol ON immersion cooling fluid: DC 15	Turad® PTFE HPC	recommended
Castrol ON immersion cooling fluid: DC 15	Turad® Oil HPC/form/Flex	recommended

* Tested in accordance with OCP guidelines for Compatibility.

Manufacturer:

Castrol

Fluid Trade Name

ON Direct Liquid Cooling PG 25

Castrol ON immersion cooling fluid: DC 20

Castrol ON immersion cooling fluid: DC 15

Manufacturer:

Tudertechnica®

Hoses Trade Name

Turad® PTFE HPC
Turad® HPC/Form/flex
Tusilrad® HPC

Turad® PTFE HPC
Turad® Oil HPC/form/Flex

Turad® PTFE HPC
Turad® Oil HPC/form/Flex

Castrol Germany GmbH **Driveline Technology Centre** **Neuhöfer Brückenstr. 81** **D - 21107 Hamburg** **Germany**	**TUDERTECHNICA** **Tubigomma Deregibus S.r.l.** **Via E. Mattei, 1 -** **35030 Saccolongo - Padova - Italy**

On behalf of Castrol

Signed by:
Florian Kipping
C65B0A0AF6944F2...
27/05/2026

26 May 2026

On behalf of TUDERTECHNICA Tubigomma Deregibus S.r.l.

Firmato da:
Daria Calvitto
ADE7D5B810BC44B...
27/05/2026

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PETRONAS

TUDERTECHNICA

Certificate of Compatibility & Approval

This certificate confirms the contact compatibility of PETRONAS IONA TERA single-phase immersion fluid with Tudertechnica hose materials, based on the results of compatibility testing performed jointly by PETRONAS and Tudertechnica in accordance with the Open Compute Project Material Compatibility in Immersion Cooling Specification, Revision 1.0. The test results confirmed that the fluid does not induce significant changes in the material properties of the tested hose components, and that the materials do not release substances into the fluid that could adversely affect its chemical or dielectric properties.

Fluid Manufacturer:	**Hose Manufacturer:**
PETRONAS Lubricants International	Tudertechnica®

Fluid Trade Name:	**Hoses Trade Name:**	
PETRONAS IONA TERA	Tufuor® PTFE HPC	Compatible
PETRONAS IONA TERA	Turad® Oil HPC	Compatible

Petronas Lubricants Italy S.p.A.
Via Santena, 1
10029 Villastellone - Torino - Italy

TUDERTECHNICA
Tubigomma Deregibus S.r.l.
Via E. Mattei, 1 –
35030 Saccolongo - Padova – Italy

On behalf of Petronas Lubricants Italy S.p.A

Dr. Alejandra de los Ríos González
Senior Manager, Sustainability & Technology Innovation
Group Sustainability & Technology Innovation

On behalf of. TUDERTECHNICA Tubigomma Deregibus S.r.l.

Mr. Andrea Deregiubus
General Manager

25 May 2026

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TUDERTECHNICA®

Valvoline™

Certificate of Compatibility

Tudertechnica hose	Product	Compatible*
Tufluor® PTFE HPC	Valvoline HPC immersion HTF DE1	compatible
Turad® Oil HPC/form/Flex	Valvoline HPC immersion HTF DE1	compatible
Tufluor® PTFE HPC	Valvoline HPC HTF PG25 Advanced	compatible
Turad® HPC/Form/flex	Valvoline HPC HTF PG25 Advanced	compatible
Tusil rad® HPC	Valvoline HPC HTF PG25 Advanced	compatible
Turad® HPC Black flex	Valvoline HPC HTF PG25 Advanced	compatible

* Tested for fluid immersion (immersion oil and PG based) in accordance with OCP guidelines for Compatibility; Compatibility Test: 80°C. The results are **limited in scope** to the materials, configurations, and test parameters evaluated. This certificate does not constitute (i) a recommendation or approval for use in any specific system, deployment, or environment, or (ii) an endorsement by either Party.

Manufacturer:

Tudertechnica®

Hoses Trade Name

Tufluor® PTFE HPC
Turad® Oil HPC/form/Flex
Turad® HPC/Form/Flex
Tusil rad® HPC
Turad® HPC Black flex

Manufacturer:

Valvoline Global

Fluid Trade Name

Valvoline HPC immersion HTF DE1
Valvoline HPC HTF PG25 Advanced

TUDERTECHNICA
Tubigomma Deregibus S.r.l.
Via E. Mattei, 1 –
35030 Saccolongo - Padova – Italy

Valvoline Global Operations
100 Valvoline Way
Suite 200
Lexington, KY 40509

On behalf of TUDERTECHNICA Tubigomma Deregibus S.r.l.

Firmato da:
Daria Caburlotto
95B2155F418743E...
26 May 2026
27/05/2026

On behalf of Valvoline Global Operations

Signed by:
Geoge Shang
7A8529CB4A7D4D0...
27/05/2026

Certificate of Compatibility & Approval

Product	Tudertechnica hose	Compatible*
ENEOS IX Type B	Tufluor® PTFE HPC	recommended
ENEOS IX Type B	Turad® Oil HPC/form/Flex	recommended
ENEOS IX Type H	Tufluor® PTFE HPC	recommended
ENEOS IX Type H	Turad® Oil HPC/form/Flex	recommended
ENEOS IX Type J	Tufluor® PTFE HPC	recommended
ENEOS IX Type J	Turad® Oil HPC/form/Flex	recommended

* Tested in accordance with OCP guidelines for Compatibility; Compatibility Test: 80°C for 2 weeks

Manufacturer:
ENEOS Corporation

Fluid Trade Name:
ENEOS IX Type B
ENEOS IX Type H
ENEOS IX Type J

Manufacturer:
Tudertechnica®

Hoses Trade Name:
Tufluor® PTFE HPC
Turad® Oil HPC/form/Flex

ENEOS Corporation
1-1-2 Otemachi, Chiyoda-ku, Tokyo
100-8162, Japan

TUDERTECHNICA®
Tubigomma Deregibus S.r.l.
Via E. Mattei, 1 –
35030 Saccolongo - Padova – Italy

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On behalf of ENEOS Corporation

CEO

On behalf of TUDERTECHNICA Tubigomma Deregibus S.r.l.

8 May 2026